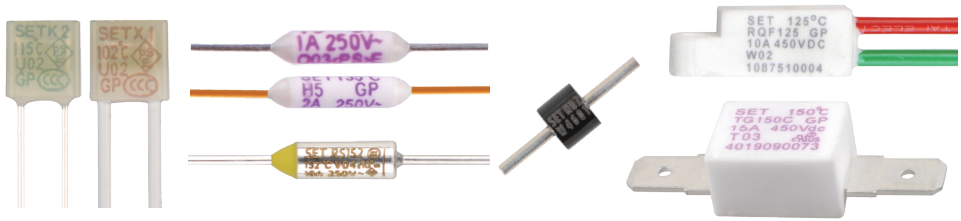
SET safe | SET fuse

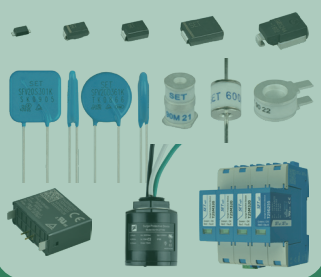
www.SETsafe.com
www.SETfuse.com

Providing a Total Solution for High Standard Safety Circuit Protection

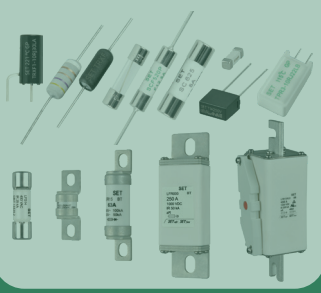
Over Temperature Protection



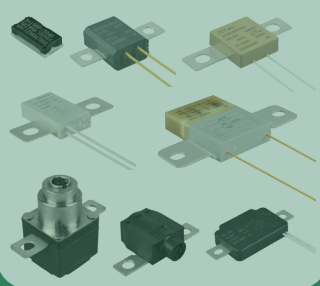
Over Voltage Protection



Over Current Protection



Active Protection



2024

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What
can do for you

www.SETsafe.com www.SETfuse.com

MISSION

PROVIDING A TOTAL SOLUTION FOR HIGH STANDARD SAFETY CIRCUIT PROTECTION.

PROVIDE 4 CATEGORIES OF PROTECTION COMPONENT PRODUCTS IN 2024

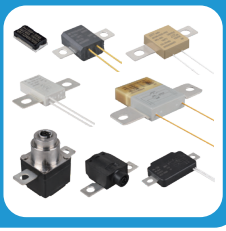
https://setsafe.com/products.html

Over Temperature Protection

Over Voltage Protection

Over Current Protection

Active Protection



SETsafe | SETfuse was established in 2000 in Xiamen, China. We have a presence in more than 40 countries and regions recognising our products. Some of the world's 500 fortune companies are our valuable customers. We have pioneered, innovated & developed several products exclusively. Products are compliance with CCC, UL, cUL, VDE, TUV, PSE, KC, IATF 16949, ISO 9001, ISO 14001, ISO 45001, ISO 50001, GB/T29490 certificates. We are in one of the core participating teams for revising and setting several national & international standards in the field of Circuit Protection.

SETsafe | SETfuse Key Markets: New Energy, Energy Storage, Telecom, Surge Protector, Power, Lighting, Home Appliances, Mobile Devices, Medical, etc.

SETsafe | SETfuse

PV System in SETsafe | SETfuse Industrial Park

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SETsafe | SETfuse Benefits

20+

Over 20 years of DESIGNING, MANUFACTURING AND SELLING of circuit protection components

40+

Sold to more than 40 countries and regions

Automatic

Automatic process production

500

A brand chosen by fortune 500 companies

Test Center

Safety, Accuracy, Equity, Efficiency

https://setsafe.com/Testing-Center-Laboratory/Introduction.html

1000+

More than 1000 testing items

300+

More than 300 sets of specialized testing equipment

Standards

Has the testing capabilities of IEC international standards, ITU standards, EN European standards, UL standards, and national and industry standards

WTDP

The laboratory has obtained the qualification of UL under Witnessed Test Data Program(WTDP) and the accreditation qualification by TUV Rheinland

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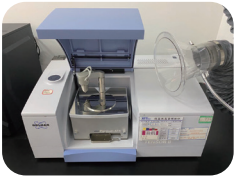
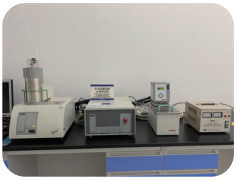
Some Test Equipment





The testing focus of the laboratory covers material analysis class, temperature test class, environmental test class, electrical test class, lightning current test class, with more than 1000 testing items.

The laboratory has the testing capabilities of IEC international standards, EN European standards, UL standards, and national and industry standards.

Test items include Marking test, Tensile test, Thrust test, Creepage distances and clearances, Dielectric strength, Insulation resistance, Holding temperature, Functioning temperature, Maximum temperature limit, Ageing, Varistor voltage, Leakage current, Voltage proof.....

WTDP

https://setsafe.com/Testing-Center-Laboratory/Witnessed-Test-Data-Program-WTDP.html

SETsafe | SETfuse Obtained Permanent Authorization:

- UL 60691,CSA C22.2 NO.60691:19.
- UL 1449, EDITION 5, ISSUE DATE 01/08/2021 (Surge Protective Devices).
- UL 1434, EDTION 1, REVISION DATE 05/18/2020 (THERMISTOR-TYPE DEVICES).
- CSA Component Acceptance Service, T.I.L, Class No.9073-31, ISSUE DATE 07/09/1991.
- CSA C22.2 No.269.5, EDITION 2, ISSUE, DATE 09/2017 (Surge Protective Devices – Type 5 - Components).
- CSA C22.2 No.269.4, EDITION 2, ISSUE, DATE 03/2017 (Surge Protective Devices – Type 4 - Component Assemblies).

SETsafe | SETfuse Obtained Permanent Authorization:

- IEC 60127
- IEC 60539-1:2016
- IEC 60691:2015+A1
- EN 60691:2016+A1
- IEC 61051-1:2018
- EN IEC 61051-1:2018
- IEC 61051-2:1991+A1
- IEC 61051-2-2:1991
- IEC 62368-1:2020 Annex G.8
- EN IEC 62368-1:2020 Annex G.8
- EN 50539-11:2013+A1
- IEC 61643-11:2011
- EN 61643-11:2012+A11
- IEC 61643-21:2012
- EN 61643-21:2001+A1+A2
- IEC 61643-31:2018
- EN 61643-31:2018
- IEC61643-311

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Over Temperature Protection

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection.html

SETsafe | SETfuse Products

1. Thermal-Link (ATCO)-Alloy Type
2. Direct Current Thermal-Link (DC-ATCO)-Alloy Type
3. Thermal-Link (OTCO)-Organic Type
4. Thermal Turn On (TTO)-Organic Type

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Glossary

T_f	Rated Functioning Temp.
I_r	Rated Current
U_r	Rated Voltage

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Abnormal Temperature of Electrical Equipment

Abnormal temperature caused by fault or abnormal operation in electrical equipment or circuit.

Applications

Communication, Home Appliances, Electronic Components on PCB board, Electric Vehicle, Industrial Control and Automation, Automobile, Lighting

SETsafe | SETfuse Solution

Normally, Fusible Alloy is jointed to the two lead wires. Under abnormal conditions, when the temperature reaches to the fusing temperature of Alloy Thermal Cutoff (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. Using ATCO to solve the problem of abnormal temperature caused by fault or abnormal working in electrical equipment or circuit, in order to avoid fire.

1

Thermal-Link (ATCO) Alloy Type

T_f : 76 ~ 230 °C

I_r : 1 ~ 200 A

U_r : 125 ~ 800 VAC, 50 ~ 200 VDC

More than 500 models

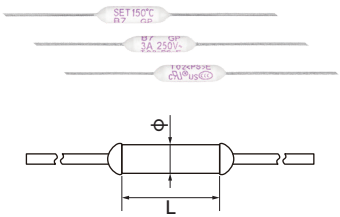
RoHS
REACH

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type.html

Shape

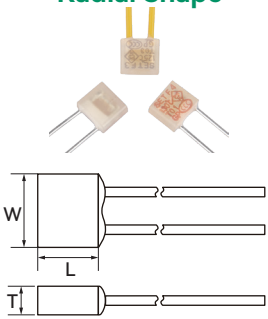
1

Axial Shape



2

Radial Shape



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Thermal-Link (ATCO)
Alloy Type

1 Axial Shape

Learn more

V series

T_f : 76 ~ 221 ℃
I_r : 1 A / 125 VAC, 1 A / 250 VAC, 4 A / 60 VDC
U_r : 125 / 250 VAC, 50 / 60 VDC
Body Dimensions: L=6.5 mm, ϕ=2.1 mm
Applications: Motor / Transformer / Lighting / Home Appliances / Switching Power Supply / Diffuser / Electric Blanket

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/V-series.html

Learn more

H series

T_f : 76 ~ 221 ℃
I_r : 2 A
U_r : 125 / 250 VAC, 50 / 60 VDC
Body Dimensions: L=9.0 mm, ϕ=2.5 mm
Applications: Motor / Transformer / Lighting / Home Appliances / Switching Power Supply / Diffuser / Electric Blanket

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/H-series.html

Learn more

B series

T_f : 76 ~ 221 ℃
I_r : 3 A
U_r : 125 / 250 VAC, 50 / 60 VDC
Body Dimensions: L=10.0 mm, ϕ=3.0 mm
Applications: Motor / Transformer / Lighting / Home Appliances / Switching Power Supply / Diffuser /Electric Blanket

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/B-series.html

Learn more

SF series

T_f : 115 ~ 139 ℃
I_r : 3 / 5 A
U_r : 60 VDC
Body Dimensions: L=6.0 mm, ϕ=1.5 mm
Applications: Motor / Transformer / Lighting / Home Appliances / Switching Power Supply / Diffuser / Electric Blanke

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/SF-series.html

Learn more

C series

T_f : 76 ~ 221 ℃
I_r : 5 A / (125 / 250 VAC), (5 / 7 A) / 50 VDC (5 / 6 / 8 A) / 60 VDC
U_r : 125 / 250 VAC, 50 / 60 VDC
Body Dimensions: L=11.5 mm, ϕ=3.3 mm
Applications: Motor / Transformer / Lighting / Power Strips / Switching Power Supply /Home Appliances / Batter

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/C-series.html

Learn more

M series

T_f : 139 ℃
I_r : 9 A
U_r : 60 VDC
Body Dimensions: L=6.5 mm, ϕ=2.1 mm
Applications: Motor / Lighting / Power Strips / Home Appliances / Batter

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/M-series.html

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Thermal-Link (ATCO)
Alloy Type

1 Axial Shape

Learn more

U series

T_f : 76 ~ 221 ℃
I_r : 10 A
U_r : 250 VAC, 60 VDC
Body Dimensions: L=14.0 mm, ϕ=4.0 mm
Applications: Motor / Transformer / Lighting / Power Strips / Switching Power Supply / Home Appliances / Battery / Capacitor

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/U-series.html

Learn more

R series

T_f : 76 ~ 221 ℃
I_r : 15 A
U_r : 250 VAC, 60 VDC
Body Dimensions: L=14.0 mm, ϕ=4.0 mm
Applications: Motor / Transformer / Lighting / Home Appliances / Switching Power Supply / Power Strips / Battery / Capacitor

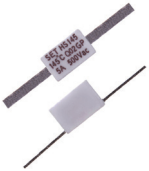
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/R-series.html

Learn more

CR series

T_f : 139 ℃
I_r : 15 A
U_r : 60 VDC
Body Dimensions: L=11.5 mm, ϕ=3.3 mm
Applications: Motor / Lighting / Power Strips / Home Appliances / Battery

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/CR-series.html



Learn more

HS series

T_f : 125 ~ 145 ℃
I_r : 5 A
U_r : 500 VAC, 200 VDC
Body Dimensions: L=9.6 mm, W=6.0 mm, T=6.0 mm
Applications: Lighting / Surge Protection Device / Battery / Automotive Electronics

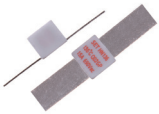
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/HS-series.html

Learn more

HP series

T_f : 125 ~ 145 ℃
I_r : 10 A
U_r : 500 VAC, 200 VDC
Body Dimensions: L=8.6 mm, W=7.6 mm, T=6.0 mm
Applications: Lighting / Surge Protection Device / Battery / Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/HP-series.html



Learn more

HN series

T_f : 125 ~ 145 ℃
I_r : 15 A
U_r : 690 VAC, 200 VDC
Body Dimensions: L=10.0 mm, W=10.0 mm, T=7.4 mm
Applications: Lighting / Surge Protection Device / Battery / Automotive Electronics

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/HN-series.html

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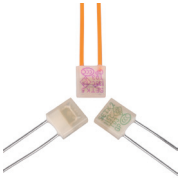
F series

T_f : 76 ~ 160 ℃
I_r : 1 A / 250 VAC, 3 A / 60 VDC
U_r : 250 VAC, 60 VDC
Body Dimensions: L=4.2 mm, W=5.1 mm, T=2.3 mm
Applications: Motor / Transformer / Lighting / Home Appliances / Switching Power Supply / Diffuser / Electric Blanket / Electric Heating Apparatus

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/F-series.html



Learn more

K series

T_f : 76 ~ 221 ℃
I_r : 2 A / 250 VAC, 4 A / 60 VDC
U_r : 250 VAC, 60 VDC
Body Dimensions: L=5.8 mm, W=5.8 mm, T=2.3 mm
Applications: Motor / Transformer / Lighting / Battery / Home Appliances / Switching Power Supply / Diffuser / Electric Blanket / Electric Heating Apparatus

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/K-series.html

Learn more

KG series

T_f : 76 ~ 221 ℃
I_r : 2 A
U_r : 250 VAC, 60 VDC
Body Dimensions: L=10.0 mm, W=5.8 mm, T=2.3 mm
Applications: Lighting / Switching Power Supply / Home Appliances / Batter

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/KG-series.html

Learn more

X series

T_f : 76 ~ 221 ℃
I_r : 3 A / 250 VAC, 4 A / 60 VDC
U_r : 250 VAC, 60 VDC
Body Dimensions: L=5.8 mm, W=5.8 mm, T=2.3 mm
Applications: Motor / Transformer / Lighting / Diffuser / Switching Power Supply / Home Appliances / Electric Blanket / Battery / Electric Heating Apparatus

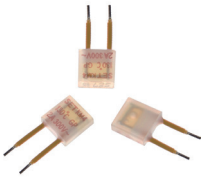
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/X-series.html

Learn more

XG series

T_f : 76 ~ 221 ℃
I_r : 3 A
U_r : 250 VAC, 60 VDC
Body Dimensions: L=10.0 mm, L1=10.0 mm, W=5.8 mm, T=2.3 mm
Applications: Lighting / Switching Power Supply / Home Appliances / Battery

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/XG-series.html



Learn more

KM series

T_f : 125 ~ 150 ℃
I_r : 2 A
U_r : 300 / 320 VAC
Body Dimensions: L=5.8 mm, W=5.8 mm, T=2.3 mm
Applications: Motor / Transformer / Lighting / Switching Power Supply / Battery / Home Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/KM-series.html

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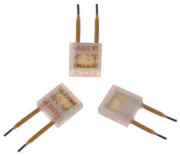
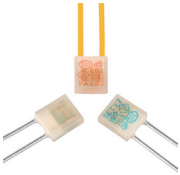


Learn more

XM series

T_f : 130 ~ 150 ℃
I_r : 3 A
U_r : 300 / 320 VAC
Body Dimensions: L=5.8 mm, W=5.8 mm, T=2.3 mm
Applications: Motor / Transformer / Lighting / Battery / Switching Power Supply / Home Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/XM-series.html

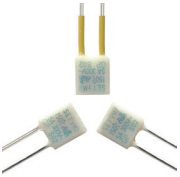


Learn more

Y series

T_f : 76 ~ 187 ℃
I_r : 5 A
U_r : 250 / 300 VAC
Body Dimensions: L=7.0 mm, W=6.6 mm, T=2.7 mm
Applications: Motor / Lighting / Power Strips /Battery / Switching Power Supply / Home Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/Y-series.html

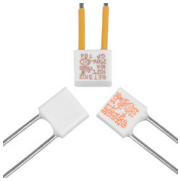


Learn more

YM series

T_f : 130 ~ 150 ℃
I_r : 5 A
U_r : 300 VAC
Body Dimensions: L=7.0 mm, W=6.6 mm, T=2.7 mm
Applications: Motor / Lighting / Power Strips / Battery / Switching Power Supply / Home Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/YM-series.html



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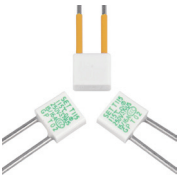
S series

T_f : 102 ~ 150 ℃
I_r : 10 A
U_r : 125 / 250 VAC
Body Dimensions: L=7.5 mm, W=8.3 mm, T=3.4 mm
Applications: Motor / Lighting / Power Strips / Battery / Switching Power Supply / Surge Protection Device / Home Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/S-series.html

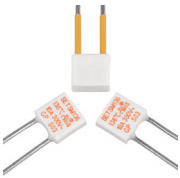


Learn more

T series

T_f : 102 ~ 221 ℃
I_r : 15 / 16 A
U_r : 125 / 250 VAC
Body Dimensions: L=7.5 mm, W=8.3 mm, T=3.4 mm
Applications: Motor / Lighting / Power Strips / Battery / Home Appliances / Surge Protection Device / Switching Power Supply

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/T-series.html



Learn more

SM series

T_f : 102 ~ 150 ℃
I_r : 10 A
U_r : 300 VAC
Body Dimensions: L=7.5 mm, W=8.3 mm, T=3.4 mm
Applications: Motor / Lighting / Power Strips / Battery / Home Appliances /Surge Protection Device / Switching Power Supply

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/SM-series.html

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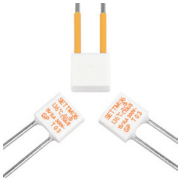
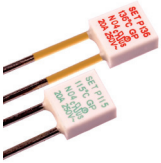


Learn more

TM series

T_f : 102 ~ 150 ℃
I_r : 15 / 16 A
U_r : 300 VAC
Body Dimensions: L=7.5 mm, W=8.3 mm, T=3.4 mm
Applications: Motor / Lighting / Power Strips / Battery / Home Appliances / Surge Protection Device / Switching Power Supply

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/TM-series.html

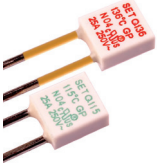


Learn more

P series

T_f : 102 ~ 221 ℃
I_r : 20 A
U_r : 250 / 300 / 400 VAC, 120 VDC
Body Dimensions: L=11.5 mm, W=10.8 mm, T=4.8 mm
Applications: Motor / Power Strips / Battery / Surge Protection Device / Home Appliances / Switching Power Supply

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/P-series.html



Learn more

Q series

T_f : 102 ~ 136 ℃
I_r : 25 A
U_r : 250 /300 /400 VAC, 120 VDC
Body Dimensions: L=11.5 mm, W=10.8 mm, T=4.8 mm
Applications: Motor / Switching Power Supply / Power Strips/Battery / Home Appliances / Surge Protection Device / Capacitor / Transformer

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/Q-series.html

Learn more

SK series

T_f : 102 ~ 221 ℃
I_r : 10 A
U_r : 250 VAC
Body Dimensions: L=17.0 mm, W=11.0 mm, T=6.0 mm, ϕ=5.5 mm
Applications: Home Appliances / Electric Heating Apparatus

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/SK-series.html

Learn more

SKL series

T_f : 200 ~ 230 ℃
I_r : 10 A
U_r : 250 VAC
Body Dimensions: L=23.0 mm, W=12.0 mm, T=5.3 mm, ϕ=5.0 mm
Applications: Home Appliances / Electric Heating Apparatus

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/SKL-series.html

Learn more

TK series

T_f : 102 ~ 221 ℃
I_r : 15 / 16 A
U_r : 250 VAC
Body Dimensions: L=17.0 mm, W=11.0 mm, T=6.0 mm, ϕ=5.5 mm
Applications: Home Appliances / Electric Heating Apparatus

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/TK-series.html

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Learn more

SY series

T_f : 95 ~ 230 ℃
I_r : 10 A
U_r : 250 VAC
Body Dimensions: L=13.0 mm, ϕ=9.0 mm
Applications: Home Appliances / Electric Heating Apparatus

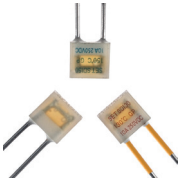
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/SY-series.html

Learn more

TY series

T_f : 95 ~ 145 ℃
I_r : 15 / 16 A
U_r : 250 VAC
Body Dimensions: L=13.0 mm, ϕ=9.0 mm
Applications: Home Appliances / Electric Heating Apparatus

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/TY-series.html



Learn more

SD series

T_f : 102 ~ 150 ℃
I_r : 10 A
U_r : 125 VDC
Body Dimensions: L=7.5 mm, W=8.6 mm, T=3.6 mm
Applications: Switching Power Supply / Battery / Surge Protection Device

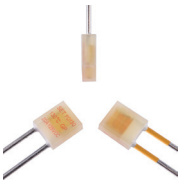
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/SD-series.html

Learn more

TD series

T_f : 102 ~ 150 ℃
I_r : 15 / 16 A
U_r : 125 VDC
Body Dimensions: L=7.5 mm, W=8.6 mm, T=3.6 mm
Applications: Switching Power Supply / Battery / Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/TD-series.html

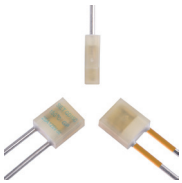


Learn more

PD series

T_f : 102 ~ 150 ℃
I_r : 20 A
U_r : 125 VDC
Body Dimensions: L=11.8 mm, W=10.7 mm, T=4.8 mm
Applications: Switching Power Supply / Battery / Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/PD-series.html



Learn more

QD series

T_f : 102 ~ 150 ℃
I_r : 25 A
U_r : 125 VDC
Body Dimensions: L=11.8 mm, W=10.7 mm, T=4.8 mm
Applications: Switching Power Supply / Battery / Surge Protection Device

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/QD-series.html

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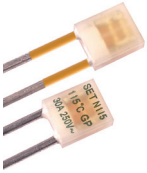
2 Radial Shape

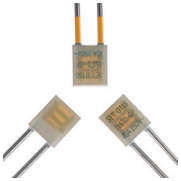


Learn more

N series

T_f : 102 ~ 150 ℃
I_r : 30 A
U_r : 250 VAC
Body Dimensions: L=13.0 mm, W=11.5 mm, T=4.9 mm
Applications: Switching Power Supply / Power Strips / Battery / Surge Protection Device / Home Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/N-series.html



Learn more

G series

T_f : 102 ~ 150 ℃
I_r : 40 A
U_r : 250 VAC
Body Dimensions: L=15.5 mm, W=13.8 mm, T=5.7 mm
Applications: Switching Power Supply / Power Strips / Battery / Surge Protection Device / Home Appliances

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-ATCO-Alloy-Type/G-series.html

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Abnormal Temperature of Electrical Equipment

Abnormal temperature caused by fault or abnormal operation in electrical equipment or circuit.

Applications

Communication, Automobile, Household Appliances, Components on PCB, Electric Vehicle, Industrial Control and Automation, Lighting, Energy Storage, Photovoltaic

SETsafe | SETfuse Solution

Under normal working conditions, the alloy is connected between the two leads. When the DC-ATCO feels abnormal heat and reaches to the predetermined Functioning Temp., the alloy melts and quickly retracts to both ends of the lead under the action of the flux, thus disconnect the circuit.

2

Direct Current Thermal-Link (DC-ATCO) Alloy Type

T_f : 76 ~ 230 °C

I_r : 10 ~ 200 A

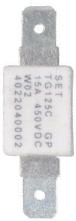
U_r : 60 ~ 850 VDC

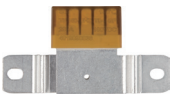
CB RoHS REACH

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type.html

Rated Current (Ir)

1	2	3	4	5	6
≤ 10 A	11 ~ 15 A	16 ~ 25 A	26 ~ 60 A	61 ~ 80 A	81 ~ 200 A





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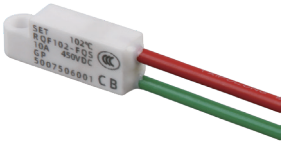
Direct Current Thermal-Link (DC-ATCO) Alloy Type

1 Rated Current (Ir): ≤ 10 A

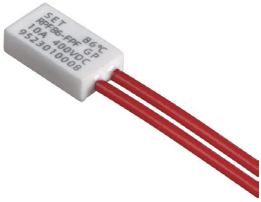


Learn more

RQF series

T_f : 86 ~ 187 ℃
I_r : 10 A
U_r : 450 VDC
I_{min} : 3 A

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/RQF-series.html



Learn more

RPF series

T_f : 86 ~ 102 ℃
I_r : 10 A
U_r : 400 VDC
I_{min} : 0.5 A

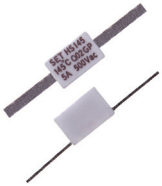
Learn more:
https://www.setsafe.cn/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/RPF-series.html

Learn more

HP series

T_f : 125 ~ 145 ℃
I_r : 10 A
U_r : 200 VDC, 500 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/HP-series.html

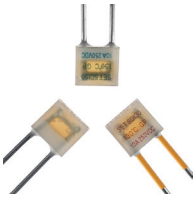


Learn more

HS series

T_f : 125 ~ 145 ℃
I_r : 5 A
U_r : 200 VDC, 500 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/HS-series.html



Learn more

SD series

T_f : 102 ~ 150 ℃
I_r : 10 A
U_r : 125 VDC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/SD-series.html

Learn more

U series

T_f : 76 ~ 221 ℃
I_r : 10 A
U_r : 60 VDC, 250 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/U-series.html

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Direct Current Thermal-Link (DC-ATCO) Alloy Type

1 Rated Current (Ir): ≤ 10 A

Learn more

C series

T_f : 76 ~ 221 ℃
I_r : (5 / 7 A) / 50 VDC, (5 / 6 / 8 A) / 60 VDC
5 A / (125 / 250 VAC)
U_r : 50 / 60 VDC, 125 / 250 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/C-series.html

Learn more

M series

T_f : 139 ℃
I_r : 9 A
U_r : 60 VDC

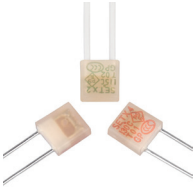
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/M-series.html

Learn more

SF series

T_f : 115 ~ 139 ℃
I_r : 3 / 5 A
U_r : 60 VDC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/SF-series.html



Learn more

X series

T_f : 76 ~ 221 ℃
I_r : 3 A / 250 VAC, 4 A / 60 VDC
U_r : 60 VDC, 250 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/X-series.html

Learn more

K series

T_f : 76 ~ 221 ℃
I_r : 2 A / 250 VAC, 4 A / 60 VDC
U_r : 60 VDC, 250 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/K-series.html

Learn more

V series

T_f : 76 ~ 221 ℃
I_r : 4 A / 60 VDC, 1 A / 125 VAC,
1 A / 250 VAC
U_r : 50 / 60 VDC, 125 / 250 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/V-series.html

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Direct Current Thermal-Link (DC-ATCO) Alloy Type

1 Rated Current (Ir): ≤ 10 A

Learn more

B series

T_f : 76 ~ 221 ℃
I_r : 3 A
U_r : 50 / 60 VDC, 125 / 250 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/B-series.html

Learn more

F series

T_f : 76 ~ 160 ℃
I_r : 1 A / 250 VAC, 3 A / 60 VDC
U_r : 60 VDC, 250 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/F-series.html

Learn more

XG series

T_f : 76 ~ 221 ℃
I_r : 3 A
U_r : 60 VDC, 250 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/XG-series.html

Learn more

H series

T_f : 76 ~ 221 ℃
I_r : 2 A
U_r : 50 / 60 VDC, 125 / 250 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/H-series.html

Learn more

KG series

T_f : 76 ~ 221 ℃
I_r : 2 A
U_r : 60 VDC, 250 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/KG-series.html

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Direct Current Thermal-Link (DC-ATCO) Alloy Type

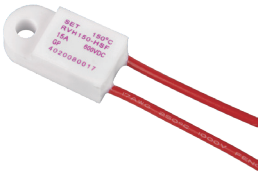
2 Rated Current (Ir): 11 ~ 15 A

Learn more

TGH series

T_f : 102 ~ 187 ℃
I_r : 15 A
U_r : 850 VDC
I_{min} : 3 A

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TGH-series.html



Learn more

RVH series

T_f : 102 ~ 187 ℃
I_r : 15 A
U_r : 600 VDC
I_{min} : 0.5 A

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/RVH-series.html

Learn more

RPK series

T_f : 102 ~ 150 ℃
I_r : 15 A
U_r : 500 VDC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/RPK-series.html

Learn more

TGxxxC series

T_f : 86 ~ 150 ℃
I_r : 15 / 20 A
U_r : 400 / 450 VDC, 600 VAC

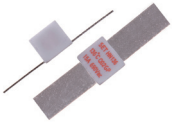
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TGxxxC-series.html

Learn more

ALP series

T_f : 102 ~ 125 ℃
I_r : 15 / 60 A
U_r : 180 / 200 VDC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/ALP-series.html



Learn more

HN series

T_f : 125 ~ 145 ℃
I_r : 15 A
U_r : 200 VDC, 690 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/HN-series.html

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Direct Current Thermal-Link (DC-ATCO) Alloy Type

2 Rated Current (Ir): 11 ~ 15 A

Learn more

TD series

T_f : 102 ~ 150 ℃
I_r : 15 / 16 A
U_r : 125 VDC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TD-series.html

Learn more

R series

T_f : 76 ~ 221 ℃
I_r : 15 A
U_r : 60 VDC, 250 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/R-series.html

Learn more

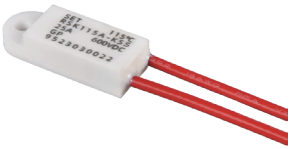
CR series

T_f : 139 ℃
I_r : 15 A
U_r : 60 VDC

Learn more:
https://www.setsafe.cn/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/CR-series.html

Direct Current Thermal-Link (DC-ATCO) Alloy Type

3 Rated Current (Ir): 16 ~ 25 A



Learn more

RSKxxxA series

T_f : 102 ~ 187 ℃
I_r : 25 A
U_r : 600 VDC
I_{min} : 3 A

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/RSKxxxA-series.html

Learn more

TGxxxC series

T_f : 86 ~ 150 ℃
I_r : 15 / 20 A
U_r : 400 / 450 VDC, 600 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TGxxxC-series.html

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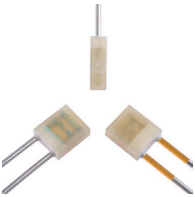
Direct Current Thermal-Link (DC-ATCO) Alloy Type

3 Rated Current (Ir): 16 ~ 25 A

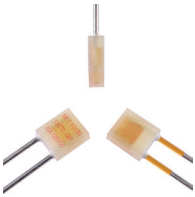


Learn more

QD series

T_f : 102 ~ 150 ℃
I_r : 25 A
U_r : 125 VDC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/QD-series.html



Learn more

PD series

T_f : 102 ~ 150 ℃
I_r : 20 A
U_r : 125 VDC

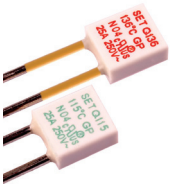
Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/PD-series.html

Learn more

TD series

T_f : 102 ~ 150 ℃
I_r : 15 / 16 A
U_r : 125 VDC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TD-series.html

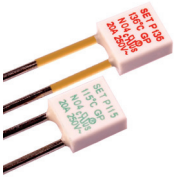


Learn more

Q series

T_f : 102 ~ 136 ℃
I_r : 25 A
U_r : 120 VDC, 250 /300 /400 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/Q-series.html

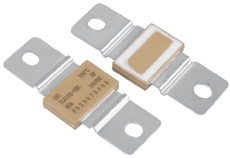


Learn more

P series

T_f : 102 ~ 221 ℃
I_r : 20 A
U_r : 120 VDC, 250 / 300 / 400 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/P-series.html



Learn more

SLx series

T_f : 102 ~ 136 ℃
I_r : 25 / 30 / 40 / 50 / 60 / 80 A
U_r : 100 VDC, 125 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/SLx-series.html

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Direct Current Thermal-Link (DC-ATCO) Alloy Type

4 Rated Current (Ir): 26 ~ 60 A

Learn more

ASLxxxA series

T_f : 102 ~ 187 ℃
I_r : 30 A
U_r : 600 VDC
I_{min} : 0.5 A

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/ASLxxxA-series.html

Learn more

ARL series

T_f : 86 ~ 187 ℃
I_r : 30 A
U_r : 500 VDC

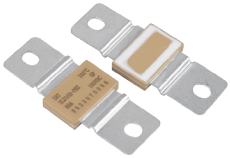
Learn more:
https://www.setsafe.cn/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/ARL-series.html

Learn more

ALP series

T_f : 102 ~ 125 ℃
I_r : 15 / 60 A
U_r : 180 / 200 VDC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/ALP-series.html

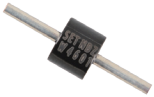


Learn more

SLx series

T_f : 102 ~ 136 ℃
I_r : 25 / 30 / 40 / 50 / 60 / 80 A
U_r : 100 VDC, 125 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/SLx-series.html

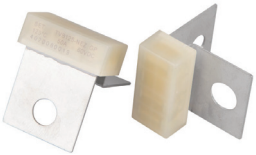


Learn more

ADNxxxB series

T_f : 205 ~ 230 ℃
I_r : 50 / 55 / 80 A
U_r : 48 VDC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/ADNxxxB-series.html



Learn more

TVB series

T_f : 102 ~ 136 ℃
I_r : 50 A
U_r : 60 VDC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TVB-series.html

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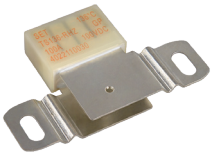
Direct Current Thermal-Link (DC-ATCO) Alloy Type

5 Rated Current (Ir): 61 ~ 80 A

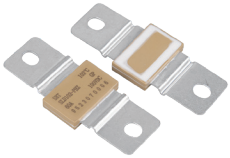


Learn more

TS series

T_f : 102 ~ 136 ℃
I_r : 80 / 100 A
U_r : 100 VDC, 125 / 250 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TS-series.html

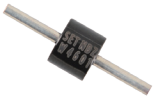


Learn more

SLx series

T_f : 102 ~ 136 ℃
I_r : 25 / 30 / 40 / 50 / 60 / 80 A
U_r : 100 VDC, 125 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/SLx-series.html



Learn more

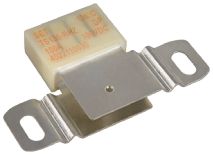
ADNxxxB series

T_f : 205 ~ 230 ℃
I_r : 50 / 55 / 80 A
U_r : 48 VDC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/ADNxxxB-series.html

Direct Current Thermal-Link (DC-ATCO) Alloy Type

6 Rated Current (Ir): 81 ~ 200 A

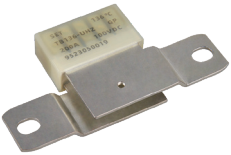


Learn more

TS series

T_f : 102 ~ 136 ℃
I_r : 80 / 100 A
U_r : 100 VDC, 125 / 250 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TS-series.html



Learn more

TB series

T_f : 102 ~ 136 ℃
I_r : 200 A
U_r : 100 VDC, 125 VAC

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Direct-Current-Thermal-Link-DC-ATCO-Alloy-Type/TB-series.html

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Abnormal Temperature of Electrical Equipment

Abnormal temperature caused by fault or abnormal operation in electrical equipment or circuit.

Applications

Kitchen Appliances, Sanitary Appliances, Health Care Appliances, Major Home Appliances, Office Equipment, Vehicle Parts

SETsafe | SETfuse Solution

Under normal operating temp., the solid thermal pellet keeps the isolated lead connected to the sliding contact. When the Thermal-Link senses abnormal heat and temp. reaches the predeter mined fusing temp., thermal pellet melts and the sliding contact separates from the isolated lead with the assistance of trip spring, thereby the circuit is disconnected.

3

Thermal-Link (OTCO) Organic Type

I_r : 10 A, 15 / 16 A

U_r: 250 VAC

T_f : 72 ~ 263 °C

RoHS
REACH

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type.html

Rated Current (I_r)

1
10 A

2
15 / 16 A

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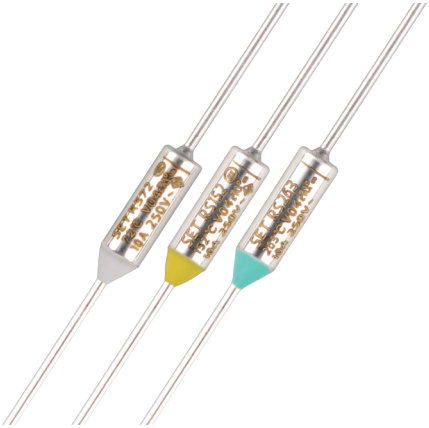
Thermal-Link (OTCO) Organic Type

1 Rated Current (Ir): 10 A



RS series

I_r : 10 A

U_r : 250 VAC

T_f : 72 ~ 263 ℃

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type/RS-series.html

Thermal-Link (OTCO) Organic Type

2 Rated Current (Ir): 15 / 16 A

RT series

I_r : 15 / 16 A

U_r : 250 VAC

T_f : 72 ~ 263 ℃

Learn more:
https://setsafe.com/Products/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type/RT-series.html

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Abnormal Temperature of Electrical Equipment

Abnormal temperature caused by fault or abnormal operation in electrical equipment or circuit.

Applications

Fire-fighting Equipment, Remote Signaling Switch

SETsafe | SETfuse Solution

Normally, the solid thermal pellet keeps the isolated lead and disc separating. When the thermal pellet sensed abnormal heat and temp. reaches the predetermined temp., thermal pellet melts and the isolated lead and disc contact, with the assistance of spring, thereby the circuit is connected.

4

Thermal Turn On (TTO) Organic Type

T_f : 73 ~ 217 °C

I_r : 1 A

U_r : 250 VAC

RoHS REACH

Learn more:
https://www.setsafe.cn/Products/Over-Temperature-Protection/Thermal-Turn-On-TTO-Organic-Type.html

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Providing a Total Solution for High Standard Safety Circuit Protection

Websites

www.SETsafe.com
www.SETfuse.com

Products Category Links

Over Temperature Protection
https://setsafe.com/Products/Over-Temperature-Protection.html

Over Voltage Protection
https://setsafe.com/Products/Over-Voltage-Protection.html

Over Current Protection
https://setsafe.com/Products/Over-Current-Protection.html

Active Protection
https://setsafe.com/Products/Active-Protection.html

Product Catalog & Datasheet Download Link

https://setsafe.com/Support/Datasheet-Download.html

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