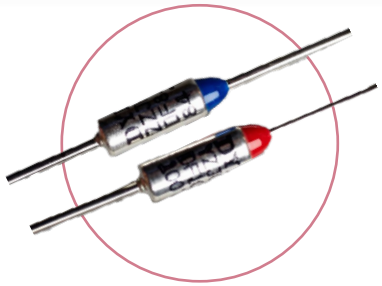
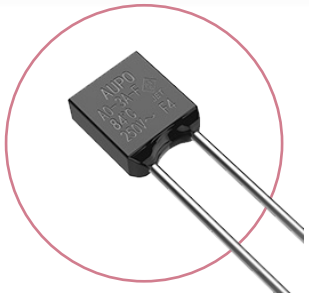
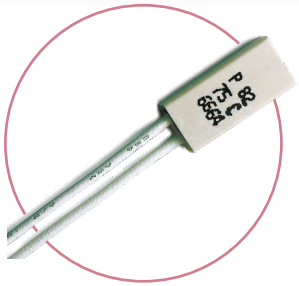






HIGH PERFORMANCE
THERMAL CUTOUTS

- QUALITY SINGLE-USE FUSES (50°C TO 280°C)
- BIMETAL RESETTABLE SWITCHES (40°C TO 155°C)
- VDE & UL-APPROVED & ROHS COMPLIANT
- HARNESS ASSEMBLIES FOR CUSTOM APPLICATIONS

Limitor Temperature, Current, Time under Control

SCHOTT glass made of ideas

AuPo®

TRUSTED AND RELIABLE COMPONENTS FROM HIGHLY REGARDED INTERNATIONAL SUPPLIERS

hawco

Thermal cutouts are an **essential safety component** in nearly every electrical device, from small household appliances to scientific apparatus, motors and commercial catering equipment. Despite their simplicity, thermal links must demonstrate the required level of **reliable performance** - as well as be **correctly specified** - in order to be effective.

We offer a range of **different thermal cutouts** covering functioning temperatures between 40°C and 280°C - all manufactured by international brands with a trusted reputation for high production quality.

These span a **wide choice** of AC and DC current ratings, operation types, size, construction materials and accuracy to meet your specific application - with **custom options** available to make assembly into your products quicker and easier.

LIMITLESS APPLICATIONS

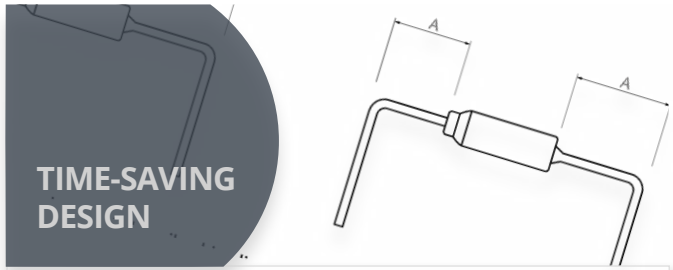
Expert advice to help you select the right thermal cutout to meet your standard or special criteria

- Wide range of rated current from 0.5A to 16A (250V AC) or 3A to 7A (DC)
- Normal functioning temperature range between 40°C and 280°C
- Special designs available for small areas, temperature protection or mould-resistance

TRUSTED PERFORMANCE

Components manufactured and tested to meet stringent international safety standards

- Certfication supplied for all major safety standards including CE, UL, cUL, CSA and VDE
- Production compliance with RoHS directive and ISO 9001 quality management systems



TIME-SAVING DESIGN

Standard items can be customised to make them easier to install as part of your production process

- Different lead types, shapes and lengths can be provided
- Accessories include mounting clips and brackets
- Available as part of a custom-built harness to match your particular application

RELIABLE SUPPLY

Vast majority of thermal fuses and switches available for delivery within five days

- Small quantities ordered specially to minimise costs and wastage
- Components required regularly can be held as a consignment agreement and supplied next-day to meet changes in your production levels

Limitor Thermal Fuses
28 Models : 50°C to 280°C (Tf)

- 16A DF-S
- 16A DF-SL

Limitor

- VDE & UL-approval. RoHS compliant
- Small dimension: 71mm x 4mm
- DF-SL with long leads
- Made in Germany

SEFUSE® Thermal Fuses
52 Models : 73°C to 240°C (Tf)

- 6A SF-K
- 10A/15A SF-R
- 10A/15A SFH-R

SCHOTT

- VDE & UL-approval. RoHS compliant
- Uses thermosensitive material as the thermal pellet
- Large rated current (6A to 15A) with SFH/R for high temperatures
- Made in Japan

SEFUSE® Thermal Fuses
19 Models : 76°C to 151°C (Tf)

- 0.5A SM-G
- 1A SM-B
- 2A SM-A

SCHOTT

- VDE & UL-approval. RoHS compliant
- Fusible alloy inside miniature ceramic case
- Rated current of 0.5A to 2.0A (AC) / 3.0A to 7.0A (DC)
- Made in Japan

AUPO Thermal Fuses
18 (3A & 5A) Models : 84°C to 150°C (Tf)

- 3A A-3A-F
- 5A A-5A-F

AUPO

- VDE & UL-approval. 14 models conform to RoHS
- Alloy thermal cut out
- 1A, 10A, 15A and 20A also available
- Made in China

Thermal Bimetal Switches
40°C...150°C | 20 mA

- 1A O-Type
- 2.5A P-Type
- 2.5A Q-Type

Limitor

- VDE & UL-approval. RoHS compliant
- Choice of switch open or close
- Mould-proof construction and temperature-resistent mousing
- Made in Germany

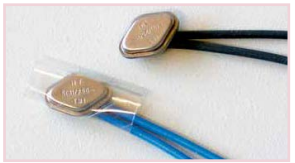
Thermal Bimetal Switches
50°C...155°C | 50 mA

- 2A TB-02
- 5A TB-05
- 11A TB-11

Limitor

- VDE & UL-approval. RoHS compliant
- Choice of switch open or close
- Time-delayed reset possible
- Made in Germany

Also Available



Motor Protectors

Current and Temperature Limiter

High Temperature Limiter
Max switching temperature 450°C.

FOR FULL PRODUCT SPECIFICATIONS & SELECTOR TOOL, VISIT **WWW.HAWCO.CO.UK/TCO**

- Small Home Appliances
- Large Home Appliances
- Foodservice Equipment
- Automotive
- Commercial Kitchen Equipment
- Scientific Devices
- Motors

Most Popular Items At a Glance

Thermal Fuses

RANGE	RATED CURRENT	FUNCTIONING TEMP RANGE (TF)	MAX HOLDING TEMP RANGE (TH)	MAX TEMP RANGE (TM)
DF-S/DF-SL	16A (250V AC)	50°C...280°C	TH = TF -24°C	110°C... 300°C
SF-K	15A/10A (Resistive) 250V AC	73°C...216°C	45°C...198°C	150°C...300°C
SF-R	6A (Resistive) 250V AC	73°C...240°C	58°C...200°C	165°C...380°C
SFH-R	15A/10A (Resistive) 250V AC	110°C...176°C	99°C...165°C	400°C
SM-G	0.5A (Resistive) 250V AC; 5A 50V DC	115°C...225°C	N/A	125°C...235°C
SM-B	1A (Resistive) 250V AC; 3.5A or 6A 50V DC	97°C...225°C	N/A	125°C...235°C
SM-A	2A (Resistive) 250V AC; 3A, 4A or 7A 50V DC	76°C...225°C	N/A	100°C...235°C
Ax-3A-F	3A 250V AC	84°C...160°C	65°C...135°C	203°C
Ax-5A-F	5A 250V AC	84°C...160°C	65°C...135°C	203°C

Thermal Switches

RANGE	BREAKING CAPACITY	MINIMUM CURRENT	SWITCHING TEMPERATURE	SWITCHING DIFFERENTIAL	MAX AMBIENT TEMPERATURE
O	1A 250V AC / 50Hz	20 mA	50°C...130°C in 5 Kelvin steps	10K to 60K	160°C/200°C 1 minute
P	2.5 A (1.6) 250V AC / 50Hz	20 mA	40°C...150°C in 5 Kelvin steps	10K to 60K	160°C/200°C 1 minute
Q	2.5A (1.0) 250V AC / 50Hz	5V / 20 mA	40°C...120°C (150°C)	N/A	160°C
TB-02	2A 250V AC / 50Hz	50 mA	50°C...155°C	10K to 50K	160°C
TB-05	5 A 250V AC / 50Hz	50 mA	50°C...155°C	10K to 50K	160°C
TB-11	11A (1.0) 250V AC / 50Hz	50 mA	55°C...160°C	10K to 45K	180°C

To discuss your application in detail - or for full technical details including specialist ranges, dimensions, performance data, international approvals and available options - contact our OEM technical team.

GOT A PROJECT IN MIND? WE CAN HELP

Every day, our in-house design team advise OEM customers on the components they need.

We can source a suitable part from an existing design specification or set of technical drawings. Or we can investigate a number of different solutions based on original requirements.

If you want advice on how to improve your product or reduce its cost, discuss your project with us.

REQUEST A TEST SAMPLE FOR YOUR PRODUCT DESIGN

ARRANGE A MEETING WITH A TECHNICAL EXPERT

SEND US YOUR PROJECT SCOPE

TO TALK TO OUR EXPERT TEAM, CALL **+44 (0)1483 869 070** OR EMAIL **SALES@HAWCO.CO.UK**

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