



## Features

- Formerly a **KOMATSULITE™** product
- Miniature Thermal Cutoff (TCO) device
- High current capacity, low impedance
- Overtemperature and overcurrent protection for lithium polymer and prismatic cells
- Controls abnormal, excessive current virtually instantaneously, up to rated limits
- Wide range of temperature options

## Applications

Battery cell protection for:

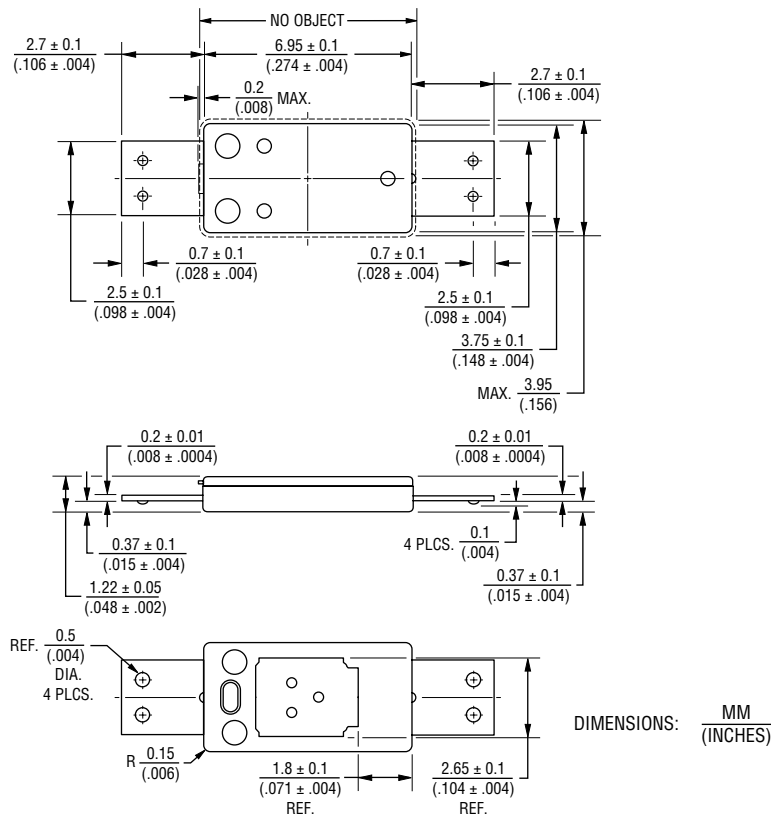
- Notebook PCs
- Tablet PCs
- Smart phones

## AA Series Breaker (Thermal Cutoff Device)

### Ratings

| Specification            | AA72AB0                   | AA77AB0      | AA82AB0      | AA85AB0      |
|--------------------------|---------------------------|--------------|--------------|--------------|
| Trip Temperature         | 72 °C ± 5 °C              | 77 °C ± 5 °C | 82 °C ± 5 °C | 85 °C ± 5 °C |
| Reset Temperature        | 40 °C min.                |              |              |              |
| Contact Rating           | DC9 V / 35 A, 1000 cycles |              |              |              |
| Maximum Breaking Current | DC5 V / 60 A, 100 cycles  |              |              |              |
| Maximum Voltage          | DC28 V / 35 A, 100 cycles |              |              |              |
| Maximum Leakage Current  | 200 mA max. @ 25 °C       |              |              |              |
| Resistance               | 2 milliohms max.          |              |              |              |

### Product Dimensions



### Agency Recognition

| Description |  |
|-------------|--|
| UL, cUL     | File Number: E215638<br>(UL 60730)       |
| TUV         | File Number: R50350207<br>(EN 60730-2-9) |

### How to Order

|                              |   |
|------------------------------|---|
| Series Designator            | AA 77 A B 0                                   |
| Trip Temperature (±5 °C)     | • 72<br>• 77<br>• 82<br>• 85                  |
| Arm Material                 | A = Cu Alloy High Current Type                |
| Terminal Type                | 1 = With Projection<br>B = Without Projection |
| Manufacturer's Internal Code |   |

\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

\*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

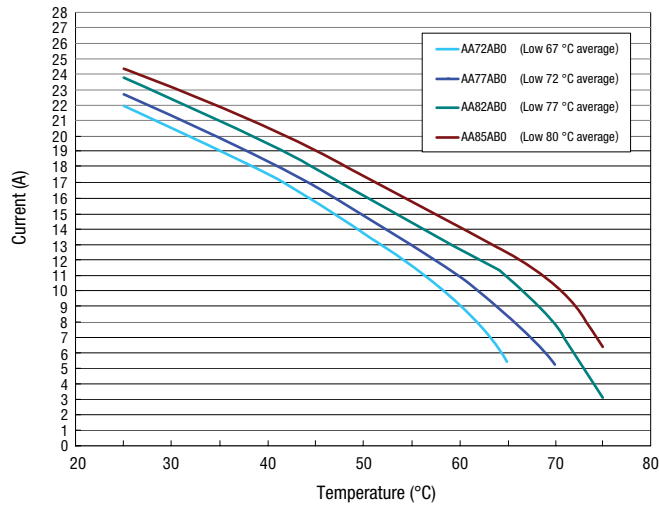
Users should verify actual device performance in their specific applications.

# AA Series Breaker (Thermal Cutoff Device)

**BOURNS®**

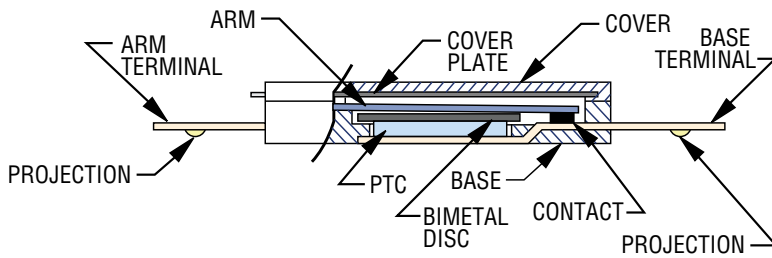
## Typical Performance

Current vs. Temperature Curves



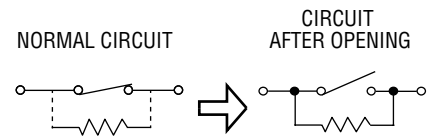
The above curves were derived from placing test samples in an oven at 25 °C, 40 °C, 60 °C and 70°C, increasing current flow through the sample at a rate of 0.1 A/minute and recording the current value when the sample trips.

## Product Structure



AVAILABLE WITH AND WITHOUT PROJECTIONS.

## Circuit Diagram



Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.