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:

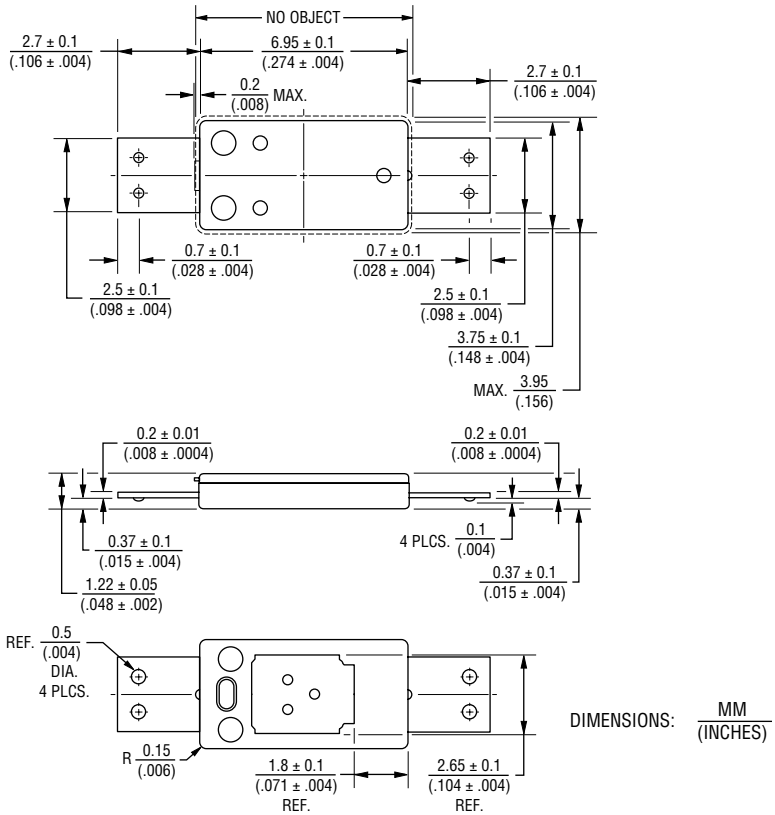
- Notebook PCs
- Tablet PCs
- Smart phones

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 *(UL 60730)*
TUV	File Number: R50350207 *(EN 60730-2-9)*

How to Order

AA 77 A B 0

Series Designator

Trip Temperature (±5 °C)
- 72
- 77
- 82
- 85

Arm Material
A = Cu Alloy High Current Type

Terminal Type
1 = With Projection
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.

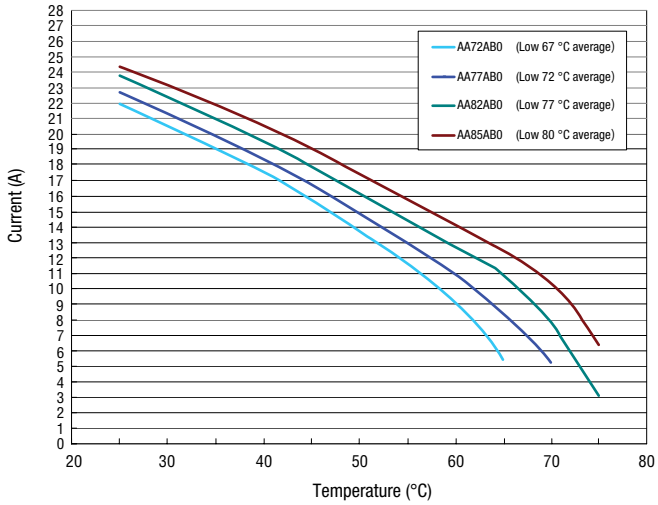
Specifications are subject to change without notice.

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.

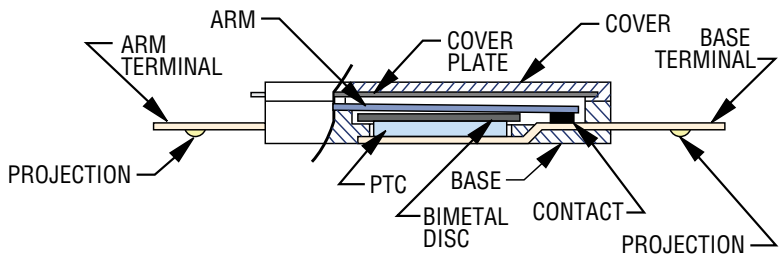
Typical Performance

Current vs. Temperature Curves



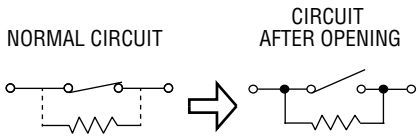
The above curves were derived from placing test samples in an oven at 25 °C, 40 °C, 60 °C and 70°C, increasing current flow through the sample at a rate of 0.1 A/minute and recording the current value when the sample trips.

Product Structure



AVAILABLE WITH AND WITHOUT PROJECTIONS.

Circuit Diagram



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