Features

- Formerly a **KOMATSULITE**™ product
- Miniature Thermal Cutoff (TCO) device
- Surface mount
- 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
- USB cable protection for smart phones

SA Series Breaker (Surface Mount Thermal Cutoff Device)

Ratings

Specification	C-TYPE			
	SA72CB0	SA77CB0	SA82CB0	SA85CB0
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 / 12 A, 6000 cycles			
Maximum Breaking Current	DC5 V / 30 A, 100 cycles			
Maximum Voltage	DC28 V / 12 A, 100 cycles			
Minimum Holding Voltage	3 V @ 25 °C for 1 minute			
Maximum Leakage Current	200 mA max. @ 25 °C			
Resistance	15 milliohms max.			

Specification	S-TYPE			
	SA72SB0	SA77SB0	SA82SB0	SA85SB0
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 / 25 A, 6000 cycles			
Maximum Breaking Current	DC5 V / 60 A, 100 cycles			
Maximum Voltage	DC28 V / 25 A, 100 cycles			
Minimum Holding Voltage	3 V @ 25 °C for 1 minute			
Maximum Leakage Current	200 mA max. @ 25 °C			
Resistance	7 milliohms max.			

Mini-breaker TCOs reset when the following conditions are met:

- The ambient temperature has dropped by 10 °C below the minimum trip temperature
- Power to the TCO has been cycled (off/on)

Agency Recognition

Description	
UL, cUL	File Number: E215638 *(UL 60730)*
TUV	File Number: E50373669 *(EN60730-2-9)*

How to Order

SA 77 S B 0

- Series Designator
- Trip Temperature (±5 °C)
  - 72
  - 77
  - 82
  - 85
- Arm Material
  - C = Cu Alloy Low Current Type
  - S = Cu Alloy High Current Type
- Terminal Type
  - B = 4 Terminals (Terminal Length 1.3 mm)
- Special Specification Code
  - Resin Type, Mfg. Internal Code, Design Mark, etc.

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WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* 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.
Users should verify actual device performance in their specific applications.
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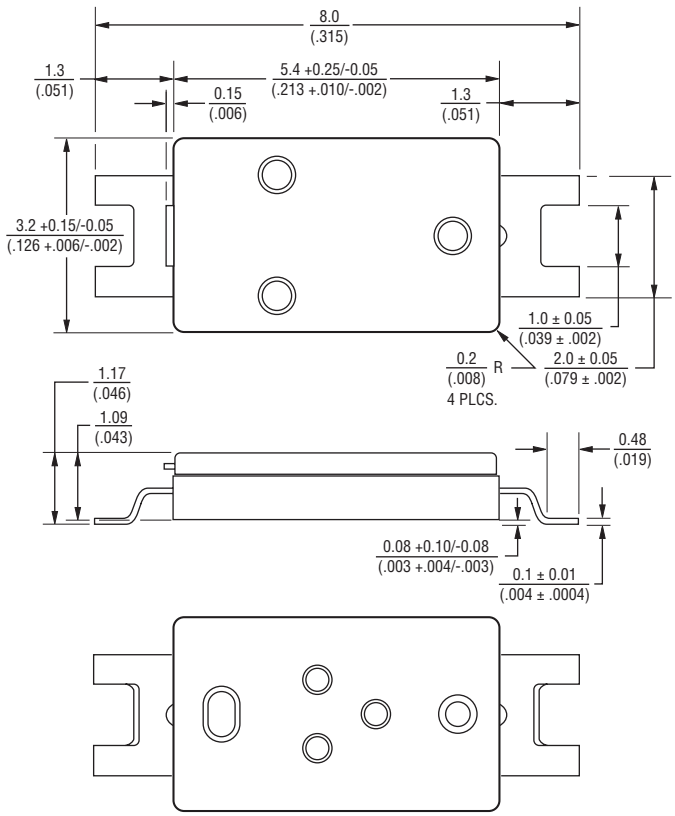
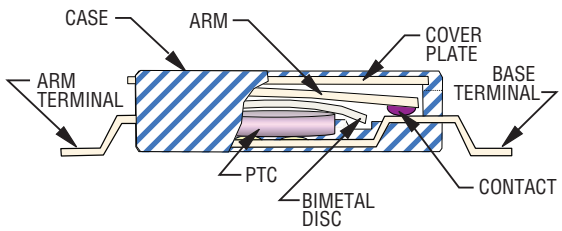
Product Dimensions

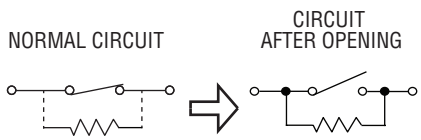


DIMENSIONS: MM / (INCHES)

Product Structure



Circuit Diagram



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