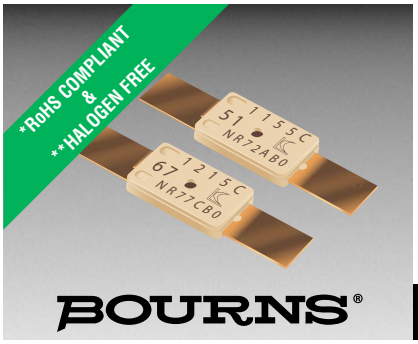


Features

- Miniature Thermal Cutoff (TCO) device
- Smallest body size, high current type
- Overtemperature and overcurrent protection for lithium polymer and prismatic cells
- Controls abnormal, excessive current instantaneously
- Wide range of temperature options

Applications

Battery cell protection for:

- Notebook PCs
- Tablet PCs
- Smart phones
- Mobile phones

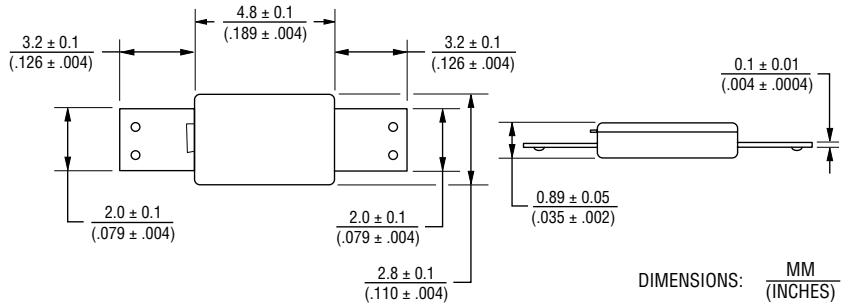
NR Series Breaker (Thermal Cutoff Device)

Ratings

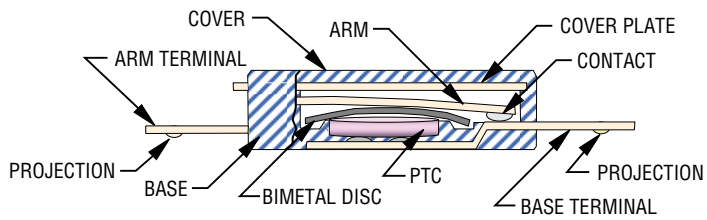
Specification	A-TYPE			
	NR72AB0	NR77AB0	NR82AB0	NR85AB0
Trip Temperature	72 °C ± 5 °C	77 °C ± 5 °C	82 °C ± 5 °C	85 °C ± 5 °C
Reset Temperature	40 °C min.			
Contact Rating	DC12V / 25 A, 6000 cycles			
Maximum Breaking Current	DC5V / 60 A, 100 cycles			
Maximum Voltage	DC28V / 25 A, 100 cycles			
Minimum Holding Voltage	2 V @ 25 °C for 1 minute			
Maximum Leakage Current	200 mA max. @ 25 °C			
Resistance	5 milliohms max.			

Specification	C-TYPE			
	NR72CB0	NR77CB0	NR82CB0	NR85CB0
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	DC12V / 12 A, 6000 cycles			
Maximum Breaking Current	DC5V / 30 A, 100 cycles			
Maximum Voltage	DC28V / 12 A, 100 cycles			
Minimum Holding Voltage	2 V @ 25 °C for 1 minute			
Maximum Leakage Current	150 mA max. @ 25 °C			
Resistance	15 milliohms max.			

Product Dimensions



Product Structure



AVAILABLE WITH AND WITHOUT PROJECTIONS.

Agency Recognition

Description	
UL, cUL	File Number: E215638
TUV	File Number: R50281578

How to Order

NR 77 A B 0

Series Designator

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

Arm Material
- A = Cu Alloy High Current Type
- C = Cu Alloy Low Current Type

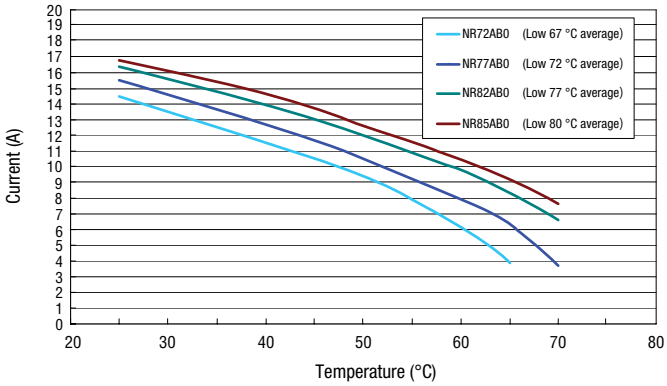
Terminal Type
- B = With Projection
- 1 = No Projection

Manufacturer's Internal Code

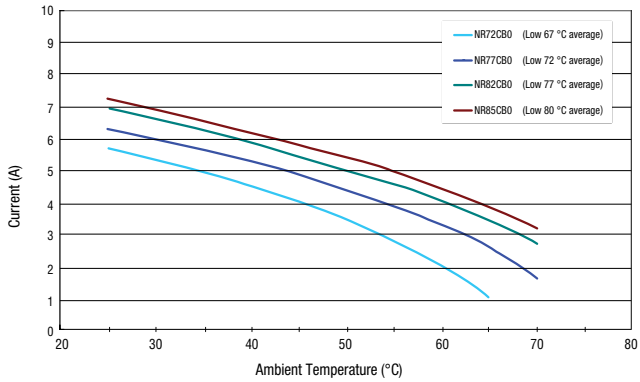
* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Typical Performance

Current vs. Temperature Curves
A-Type



Current vs. Temperature Curves
C-Type



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.

Operation