

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

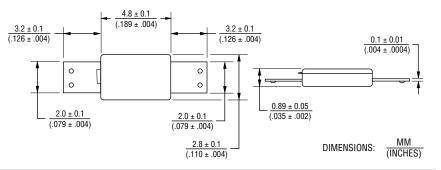
NR Series Breaker (Thermal Cutoff Device)

Ratings

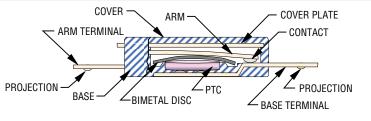
Specification	A-TYPE					
	NR72AB0	NR77AB0	NR82AB0	NR85AB0		
Trip Temperature	72 °C ± 5 °C	77 °C ± 5 °C	82 °C ± 5 °C	85 °C ± 5 °C		
Reset Temperature		40 °C min.				
Contact Rating	DC12V / 25 A, 6000 cycles					
Maximum Breaking Current	DC5V / 60 A, 100 cycles					
Maximum Voltage		DC28V / 25 A, 100 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



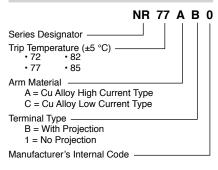
AVAILABLE WITH AND WITHOUT PROJECTIONS.

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.

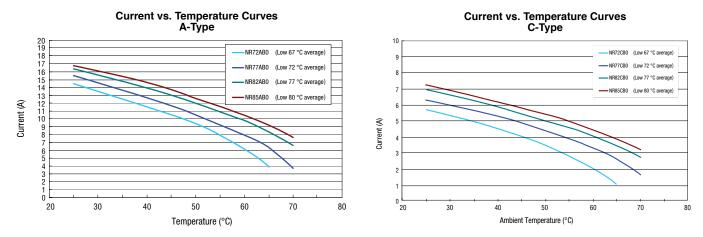
Agency Recognition

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

How to Order



Typical Performance



The above curves were derived from placing test samples in an oven at 25 $^{\circ}$ C, 40 $^{\circ}$ C, 60 $^{\circ}$ C and 70 $^{\circ}$ 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

