

# BA Series

## Aluminum Cased Resistor



Our Aluminum housed brake resistors are designed for high power and provide great stability. These resistors are constructed using wirewound on ceramic cores and isolated using a mica sheet for high dielectric properties. The aluminum house is filled with a high thermal conductivity material to ensure quick heat dissipation during continues applications. With the ability to have a thermal cut off switch embedded inside the aluminum housing, makes the BA series ideal for any safety application.

### FEATURES

- Three extrusion forms available
- Heatsinkable
- Rugged design
- Up to 1000 watts
- Thermal cut-off available
- Scalable, custom lengths available
- Custom leads available

### APPLICATIONS

- Dynamic Braking
- Motor Starting
- Power Control



### SERIES SPECIFICATIONS

| Series | Wattage* | Resistance range | Tolerance | Length |
|--------|----------|------------------|-----------|--------|
| BA1160 | 500      | 0.5Ω - 18KΩ      | ±10%      | 160mm  |
| BA2320 | 700      | 10Ω - 10KΩ       | ±10%      | 320mm  |
| BA3266 | 1000     | 10Ω - 10KΩ       | ±10%      | 266mm  |

\*Free air rating at 1hr

### CHARACTERISTICS

|  |                                      |
|--|--------------------------------------|
| <b>Overload</b>                        | 5 times rated wattage for 10 sec.    |
| <b>Power Rating</b>                    | Free air; greater with heatsink      |
| <b>Dielectric Withstanding Voltage</b> | 2.5KV, 1 min., 50/60 Hz              |
| <b>Insulation Resistance</b>           | ≥100MΩ                               |
| <b>Working Voltage</b>                 | 1000V not to exceed max power rating |
| <b>Max. Surface Temp.</b>              | 385°C                                |
| <b>Wire</b>                            | UL listed 1199 PTFE 12 AWG           |

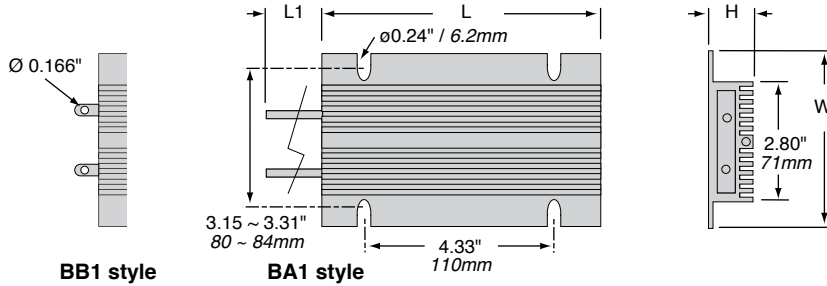
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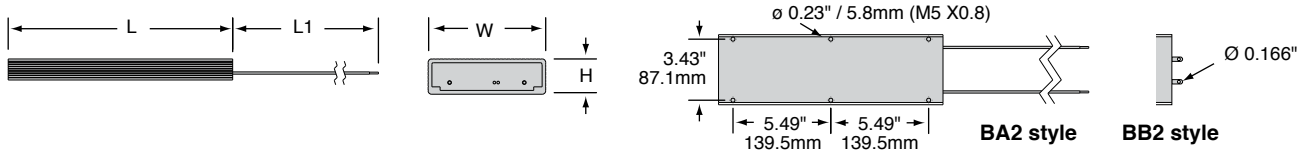
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### DIMENSIONS

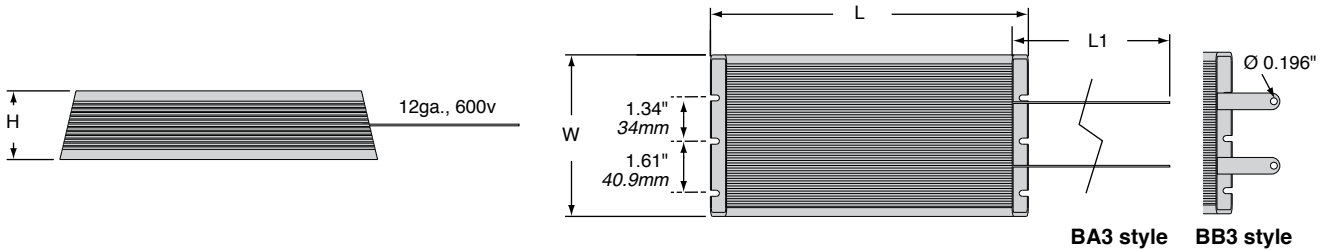
#### BA1 and BB1



#### BA2 and BB2



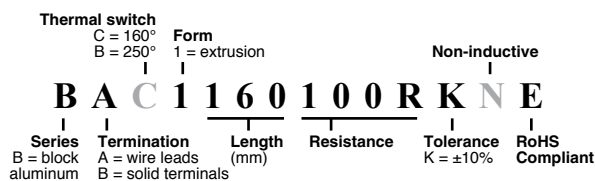
#### BA3 and BB3



| Type | L*            | L1            | W             | H              |
|------|---------------|---------------|---------------|----------------|
| BA1  | 6.3" / 160mm  | 10" / 254mm   | 4.92" / 95mm  | 1.18" / 30mm   |
| BB1  | 6.3" / 160mm  |               | 4.92" / 95mm  | 1.18" / 30mm   |
| BA2  | 12.6" / 320mm | 31.5" / 800mm | 3.94" / 100mm | 1.18" / 30mm   |
| BB2  | 12.6" / 320mm |               | 3.94" / 100mm | 1.18" / 30mm   |
| BA3  | 10.5" / 266mm | 12" / 304.8mm | 5" / 127mm    | 2.13" / 54.1mm |
| BB3  | 10.5" / 266mm |               | 5" / 127mm    | 2.13" / 54.1mm |

\* Custom Lengths for Different Wattages

### ORDERING INFORMATION



#### Standard part numbers

|               |               |
|---------------|---------------|
| BAB1160R500KE | BAB232050R0KE |
| BAB11601R00KE | BAB32666R00KE |
| BAB11602R00KE | BAB326610R0KE |
| BAB116010R0KE | BAB326615R0KE |
| BAB116025R0KE | BAB326622R0KE |
| BAB232010R0KE | BAB326650R0KE |
| BAB232025R0KE |               |