



# NEW PRODUCT RELEASE

## MINIATURE THERMAL CUTOFF DEVICES



### Bourns Introduces AEC-Q200 Compliant<sup>1</sup> Resettable Miniature Thermal Cutoff Overtemperature Protection Devices *Model SD & AD Series*

Riverside, California – March 10, 2023 – Bourns, Inc. is pleased to introduce its new [Model SD](#) and [AD Series](#) Resettable Miniature Thermal Cutoff (TCO) Mini-breaker devices. These are the first TCO devices tested by Bourns to AEC-Q200-listed stress tests. The SD and AD Series' advanced overtemperature protection technologies make them ideal solutions for a broad variety of applications such as heaters, motors, cables and printed circuit board components. They also offer excellent overtemperature protection for lithium-ion batteries in notebook PCs, tablets, smartphones and powerbanks.

The new Model SD and AD Series feature high current and low resistance (less than 4 mΩ) offered in either a surface mount (SD) or axial leaded / weldable (AD) package. Both series also offer the option for the TCO device to be either non-automatically resettable (self-hold function) or automatically resettable (non self-hold function).

These devices feature the industry's widest range of mini-breaker trip temperatures, from 55 °C up to 150 °C, and provide a trip temperature tolerance of  $\pm 5$  °C<sup>2</sup>.

The new Model AD and SD Series are RoHS compliant\* and Bourns designed both families using its highest-rated corrosion resistant bimetal mechanism for better endurance in humid environments compared to standard TCO devices.

For further details on these exciting new models, please contact [Bourns Customer Service/Inside Sales](#).

#### Features

- Miniature package size
- Surface mount package option
- Superior overtemperature and overcurrent protection
- Controls abnormal, excessive current virtually instantaneously, up to rated limits
- Industry's currently widest range of trip temperatures, up to 150 °C
- High corrosion resistance
- AEC-Q200 compliant

#### Applications

- Heaters
- Motors
- Battery packs
- Lithium-ion batteries in PCs, tablets, smartphones and powerbanks

<sup>1</sup> Meets Bourns' internal AEC-Q200 equivalent test plan.

<sup>2</sup> Any comparative claims made herein are made as of the date of publication and are made to the best of Bourns' knowledge after reasonable investigation. For more information, please contact Bourns Customer Service.

<sup>3</sup> RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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