Bourns Introduces AEC-Q200 Compliant\(^1\) 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 m\(\Omega\)) 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 ±5 °C\(^2\).

The new Model AD and SD Series are RoHS compliant\(^3\) 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

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\(^1\) Meets Bourns’ internal AEC-Q200 equivalent test plan.

\(^2\) 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.