

August 2013

MegaSurge Series: Inrush Current Limiting NTC Thermistors

The News: Ametherm receives Underwriters Laboratories (UL) certification for its MegaSurge series of inrush current limiting NTC thermistors. In addition to recognition per UL file number E209153, the devices are the industry's only inrush current limiters certified to UL 1434 for single- and three-phase input voltages up to 480 VAC.

Key Benefits:

- UL recognition for ensured safety
- One-component solution
 - Reduces costs
 - Simplifies designs
 - Increases safety
- Enhanced performance over traditional thermistors
 - Higher input voltages
 - Higher steady-state currents and input energy



Key Specifications:

- Input voltages to 480 VAC
- Withstand high steady-state currents to 36 A and up to 300 J of input energy
- Resistance at 25 °C from 1.0 Ω to 220 Ω
- Resistance at 100% of steady-state current from 0.007 Ω to 1.50 Ω
- Tolerance of 25%
- Maximum capacitance to 1300 μ F at 480 VAC

Target Applications:

- Protection of circuits in power supplies, motor controllers, audio amplifiers, battery chargers, frequency generators, plasma cutting tools, MRI machines, and toroidal transformers

The Context: Providing a simple one-component alternative to using wirewound resistors with timers and relays, MegaSurge series inrush current limiting NTC thermistors reduce costs and greatly simplify designs. In addition, they increase safety by eliminating the fire hazard associated with failed relays. While traditional thermistors are only certified for input voltages from 85 VAC to 265 VAC, UL-recognized MegaSurge devices are certified for single- and three-phase input voltages up to 480 VAC. In addition, they have the ability to withstand high steady-state currents to 36 A and up to 300 J of input energy. These specifications are the highest of any single-solution inrush current limiting device on the market.



New Product Announcement

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Availability: Samples and production quantities of the MegaSurge series are available in three to five days. Production quantities are available with lead times of four weeks.

Offered through Mouser, DigiKey, and Farnell, samples and production quantities of the MegaSurge series are available in three to five days. Production quantities are available with lead times of four weeks. Pricing for U.S. delivery starts at \$1.54 per piece.

Datasheets: <http://www.ametherm.com/inrush-current/megasurge-inrush-current-limiters.html>

Download this New Product Announcement as a PDF:

<http://www.ametherm.com/download/megasurge-inrush-current-limiter-npa-july-2013.pdf>

Request a Sample: Call 800-808-2434 (toll free in the United States) or 775-884-2434 from outside the US and Canada.