



# Tip Of The Week

April 18, 2011

## Impact of a Phase Inversion During Manufacturing or Repair

Inverting a coil or phase of a stator winding during manufacturing or repair creates a major impact on the operation and reliability of the motor. Depending on the protective devices available to prevent motor failure, the results can range from expensive to catastrophic. Blown fuses, tripped relays, lost production, and shorted stator windings are all examples of what can occur during the start-up of a motor with an inverted phase. Unfortunately, tools like the MCEMAX™, which offer a variety of tests for quick identification of an inverted phase are not often available and the troubleshooting becomes lengthy and expensive. Make motor testing part of your asset quality control program, not just part of the troubleshooting and firefighting.

To view a case study on the impact of a phase inversion go to [http://www.pdma.com/webinars/Dreaded\\_Saturday\\_Call/Dreaded\\_Saturday\\_Call.html](http://www.pdma.com/webinars/Dreaded_Saturday_Call/Dreaded_Saturday_Call.html) or read about it at <http://www.pdma.com/PdMA-articles.php>.

You are invited to submit an Electric Motor Testing Tip of your own and receive a free PdMA mug or hat if we publish it! Contact Lou at 813-621-6463 ext. 126 or [lou@pdma.com](mailto:lou@pdma.com).

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