

**March 11, 2013**

## Proof is in the Pudding...

Last week the tip discussed using inductance measured in millihenries (mH) to prequalify synchronous field health prior to spending the time performing AC Drop testing. This week we want to share some real life performance data to further qualify this suggested approach. The acceptable baseline field inductance reading for the synchronous motor models in this example is >900mH. Although each motor field was not tested at the same time interval the comparison over a period of two years is unmistakable.

	Motor #1	Motor #2	Motor #3
2003 Ind.(mH)	951	X	X
2004 Ind.(mH)	928	891	253
2005 Ind.(mH)	928	799	120

AC drop tests performed on these three motors indicated healthy field poles on Motor #1, shorted turns in pole #14 on Motor #2, and at least three poles with shorted turns on Motor #3.

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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