

June 10, 2013

Phase-to-Phase Inductance Measurements

Routine offline and shop stage gate tests should include Phase-to-Phase Inductance measurements. Phase-to-Phase measurements can be useful for diagnosing a variety of situations:

- Poor or incorrect rework such as reversed coil winding leads
- Faults in power cables or main contacts in the power circuit
- Air gap eccentricity problems
- Shorted turns such as stator phase-to-phase and coil-to-coil
- Rotor porosity and lamination damage
- Broken/cracked rotor bars or end rings

For more information read *Influence of Residual Flux on the Measurement of Inductance* at http://www.pdma.com/pdfs/Articles/Influence_of_Residual_Flux_on_the_Measurement_of_Inductance.pdf.

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.

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