



# Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

**February 18, 2007**

## Resistance vs. Inductance

The AC Standard Test (MCE) provides values for both phase-to-phase resistance and phase-to-phase inductance. These values are used to provide percentage of imbalance within the phases of a three phase AC Inductance motor. Together, these readings can accurately pinpoint the location of a problem.

- A high imbalance of resistance without a change in inductance is most likely caused by the circuit.
- A change in inductance will mean the problem is most likely related to the internal windings of the motor.
- An increase in average inductance most likely points to the rotor.

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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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