



# Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

June 2, 2008

## Power Analysis Testing - Part Three

Power Circuit = Voltage Delivery

The power circuit provides the avenue that allows your supply voltage to reach the motor. The power circuit is comprised of all the cabling, connectors, switches, contacts, and terminal blocks inside of your MCC, right through to the motor leads. There is plenty of opportunity for all of these connections to become compromised over time. Mechanical, thermal, electrical, and environmental stresses are all working against your power circuit, so it's a good idea to inspect your power circuit on a routine basis.

The MCE Standard test using the three phase-to-phase resistance values will provide you with a calculated resistive imbalance value to assist you in evaluating a three phase motor circuit.

The EMAX Power Analysis test provides voltage and current imbalance values to assist in evaluating the circuit.

---

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).