



# Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

May 26, 2008

## Power Analysis Testing - Part Two

Power Quality = Voltage Quality

Voltage quality can be degraded in several ways. You can have high or low voltage in reference to the motor nameplate. There can be imbalanced voltage and voltage with high harmonic content. All of these conditions affect motor performance in a negative way, IEEE-519 and NEMA MG1 address these conditions and suggest de-rating your electric motors to account for the poor voltage quality. No calculations are required on your part, the PdMA software calculates the de-ratings for you, letting you know what you can expect from your electric motors.

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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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