



A Leader in Electric Motor Testing

Tip Of The Week

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Voltage Unbalance

Voltage unbalance or imbalance occurs when there are unequal voltages on the three phases of an induction motor. This unbalance will cause the phase currents to be out of balance as well, which can result in torque reduction, increased vibration, elevated mechanical stress, and overheating of windings. Additionally, efficiency will suffer a decrease and energy drawn by the motor will dissipate as heat in the core and windings. Ultimately, this may result in motor failure from insulation breakdown.

Source: *Office of Industrial Technologies – Energy Management for Motor Driven Systems*

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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