



Tip Of The Week

May 31, 2010

Voltage Looks Up...Resistance Looks Down

When taking voltage or resistance measurements it is important to take into consideration the connection point of your test equipment. Voltage readings will indicate power circuit anomalies upstream of where the voltage test leads are connected. Any power circuit anomaly occurring downstream of the voltage test leads towards the motor will not be seen. The opposite is true for the resistance measurements. Power circuit anomalies occurring downstream of the resistance test lead connections will be identified by a resistance imbalance. However, all power circuit anomalies that exist upstream of the resistance test leads towards the power supply or transformer will not be seen. Knowing this warrants both a voltage and a resistance measurement when trying to troubleshoot or determine the health of your power circuit.

For more information on testing and troubleshooting the power circuit go to:
http://www.pdma.com/webinars/Power_Circuit_Fault_Zone/powercircuit.html

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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