

Electric Motor Testing Tip of the Week

revolutionizing electrical reliability

April 28, 2008

Eccentricity Tests with VFD's or RVSS's

The Air Gap fault zone is analyzed and trended with the Eccentricity Capture. Determinations about the motor's Air Gap can be made by evaluating the odd multiple sidebands of the line frequency that develop around the eccentricity frequency: RPM x # Rotor Bars / Line frequency. Tests can be preformed and evaluated accurately by knowing exactly what line frequency is being supplied to the motor. Remember a VFD's output can be higher or lower then specified on your motor's nameplate. A RVSS will usually output an un-manipulated line frequency as supplied to the facility.

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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