



Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

April 14, 2008

Rotor Tests for Variable Frequency Drives

The rotor fault zone is analyzed and trended with the Rotor Evaluation test (MCEGold) and the Hi/Lo Resolution current captures (WinVis). With both programs we look for issues with rotor bars by evaluating the current peaks at Pole-Pass Frequency. Pole-Pass Frequency is a variable dependant on loading of the motor, but it is still relative to the supplied fundamental line frequency. The line frequency can change with VFD's. With WinVis, all you have to do is identify speed and convert that speed to a frequency so you can evaluate the peaks in the current spectrum. With MCEGold, the software automatically adjusts the calculations using the supplied fundamental frequency.

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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