

Electric Motor Testing Tip of the Week

revolutionizing electrical reliability

April 21, 2008

Rotor Tests With Reduced Voltage Soft Starts (RVSS)

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. When operating your motor with a Reduced Voltage Soft Start, the line frequency is un-manipulated through the semi-conductors outside of the starting cycle as long as the RVSS is not limiting the current. The current spectrums are evaluated as if the motor was running across the line.

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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