



Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

January 8, 2007

Rotor Defects in Large 2-pole AC Induction Motors

The earliest indicator of a broken or cracked rotor bar in large 2-pole AC induction motors is the increasing amplitude of the Fp (pole pass frequency) peak in the EMAX Advanced Spectral Analysis test. General guidelines are to caution the Fp peak at .3dB and alarm it at 1dB. Remember to correlate with the Fp sidebands around the line frequency.

To read a great case study on trending rotor cage anomalies using Fp, visit www.pdma.com/PDF/CS0402.pdf.

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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