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Dynamic DC Motor Analysis

A shorted armature circuit will result in a modulating armature current. The frequency of the modulating current will be the product of the armature rotation (Hz) and the number of poles passed in a single rotation. A two-pole DC motor running at 510 rpm with a shorted armature winding will exhibit a 17 Hz armature current modulation.

Visit <u>www.pdma.com/PDF/Articles/Online_Fault_Analysis_of_DC_Motors.pdf</u> for a detailed description of online DC motor testing techniques.

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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