



Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

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DC Motor Equalizer Windings

Air Gap eccentricity on a DC motor can result in differential voltages and damaging circulating currents on the armature. In addition to ensuring that a proper air gap exists between the armature and field, equalizer windings are installed on the armature to balance out the differential voltages. It is important to understand the effect equalizer windings will have on Bar-to-Bar test results. Equalizer windings consist of connections between points of equal voltage on the commutator, for balancing the currents in the numerous armature circuits. Equalizer windings create a repeating pattern of low resistance readings in your Bar-to-Bar test results. Deviations outside of this pattern should be investigated to ensure the integrity of the armature circuit

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 Martindale at 813-621-6463 ext. 126 or lou@pdma.com.

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