



Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

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EMAX Testing on Multiple Conductor Motors

When performing EMAX testing on high current motors, it is common to find multiple conductors per phase. These are put in place to distribute the current evenly through the different conductors in order to avoid larger cabling. When testing under these conditions, it is important to remember that ALL conductors must be included in the captures. Although logic tells us that the current should be equally spread within all conductors, the reality is that the current is never equal. Therefore, measuring just one conductor and then multiplying the measurement by the number of conductors gives erroneous current values and more often than not a false indication of current imbalances.

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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