



A Leader in Electric Motor Testing

Tip Of The Week

February 3, 2014

Analyzing Variable Systems for Nominal Operation

As we mentioned in a recent Tip of the Week, understanding the nominal operation of a system and its components is imperative to a proper analysis. Systems that operate with little variability should pose little challenge when trying to ascertain the nominal operating point. On the other hand, highly variable systems pose a great challenge in their analysis. Rock crushers fall into this category. So what can one do to analyze whether the system is operating in a nominal condition? Using PdMA's new six channel process analysis tool provides the technician with a great approach to study both the current and voltage levels over a given time. A review of the peaks and troughs of these waveforms along with the average value during the test will aid in determining if the system is operating at its nominal point. Any deviation in either the peaks and troughs or the average value may be indicative of a change in the operating point of the system. Once a possible change has been indicated, use of the Basic Test Methodology outlined in our recent TOW will aid in determining why there has been a change in the operation of the system. For an example of the six channel process analysis tool visit our website at: <http://www.pdma.com> and review the Rogue Robots Case Study.

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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