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The MCEMAX Trilogy – Part 1

To properly apply the MCEMAX technology for maximum electric motor reliability it must be utilized in three different general applications over the life of a motor. These three general applications are Quality Control, Trending, and Troubleshooting, and are often applied in different environments and locations throughout the electrical distribution. Over the next three weeks we will be exploring some basic considerations for each of these general applications of the MCEMAX.

Quality Control:

A healthy start is paramount to ensure a long motor life expectancy and to get the most out of your electric motor. There is no better time to perform your first motor examination and evaluation than when it first arrives at your plant. A quick look at the power circuit (conductor path), insulation (ground, turn-to-turn and phase-to-phase), stator balance, air gap symmetry, and rotor condition will go a long way for peace of mind that you are getting a quality product. However, it doesn't end there. A quality motor sitting in a warehouse for years before installing can cause a turn for the worse. Testing these parameters again before installing and regularly during the storage duration should be part of your quality control commitment. Finally, performing quality control testing on the application during installation and through the start-up is critical to ensure you are not putting a perfectly healthy motor into an unreliable power system or faulty application.

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.