



A Leader in Electric Motor Testing

Tip Of The Week

September 15, 2014

Baseline Basics

It is essential to develop a process for adding motor assets to your testing database. An initial investment of time will deliver long-term benefits for your MCE testing program.

Whenever possible, perform initial MCE testing with a motor isolated from any power circuit components, such as cabling, power circuit capacitors, and lightning protection. Use this testing to establish the expected phase-to-phase resistance and inductance values for the motor as well as its resistance-to-ground and Rotor Influence Check behavior.

Next, connect the motor to its power circuit and perform **baseline** testing from the **same** test location where all routine periodic testing will be performed. Pay close attention to any changes in resistance or inductance values when the power circuit is included in the test and adjust the MCEGold warning settings accordingly. By taking the time to customize each asset's warning settings properly, you will ensure that any results that vary significantly from previous tests will be highlighted in the test history.

By performing initial testing on the isolated motor and baseline testing that includes the entire power circuit, you will increase the efficiency of your reliability program. You will be able to perform all routine testing from the same location and look for test data that is inconsistent with previous results. When you find a motor with test data that deviates from previous test results, isolate the motor again from the power circuit components and compare the new test results to the initial motor-only testing to determine if you should be focusing your attention on the motor or on the power circuit components.

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.

Copyright 2014 PdMA® Corporation. All rights reserved. The PdMA Tip of the Week is produced by PdMA. PdMA shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon.