



Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

May 15, 2006

Electric Motor Fault Zone Analysis - Power Quality

The 1st of the six electric motor fault zones is Power Quality. Everyone knows that a perfect car engine is not going to run well with dirty fuel. Likewise, poor power quality can greatly affect the operation and health of an electric motor. Evaluation of the Total Harmonic distortion (THD) based on the IEEE 519 guidelines for power quality and voltage imbalance levels based on the NEMA MG-1 specification are highly recommended. Voltage THD values in excess of 5% or a voltage imbalance greater than 5% can reduce the life of the motor due to excessive heat developed in the windings.

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.

Copyright 2006 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.