PdMA CORPORATION A Leader in Electric Motor Testing

Tip Of The Week

June 21, 2010

Voltage and Current Relationship

Current imbalance can occur for a variety of reasons, high resistance connection, low loading, dissimilar cable sizes, transformer anomalies, winding failures, and voltage imbalance to name a few. Due to the variety of causes, current imbalance is a good burglar alarm, but further investigation and root cause analysis is necessary to get to the source. One rule of thumb to help when you're troubleshooting a motor with a high current imbalance is that for every 1% voltage imbalance you can estimate approximately 7% current imbalance.

To learn more about troubleshooting your electric motor using a fault zone analysis approach, go to http://www.pdma.com/PdMA_mcemax_faultzone.php

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.