



A Leader in Electric Motor Testing

Tip Of The Week

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Current Imbalance

Current Imbalance is a measure of the largest deviation in current between phases.

A current imbalance may be indicative of a high resistance connection. A voltage and current imbalance together is a more reliable indicator. Test location determines whether both imbalances are present in the event of a high resistance connection.

If the test is performed upstream of an anomaly, there will only be a current imbalance. If the test is downstream of the anomaly, both a current and voltage imbalance will exist.

Parallel components such as power factor correction capacitors in the power circuit may also cause a current imbalance. Testing needs to be performed with and without the parallel components in the system being tested to eliminate them as the cause of the current imbalance.

To read more go to:

http://www.pdma.com/pdfs/Articles/Using_a_Six_Fault_Zone_Approach_for_Predictive_Maintenance_on_Motors.pdf

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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