



Tip Of The Week

May 13, 2013

Field Resistance Condition Assessment

Field resistance is temperature corrected and compared to nameplate information for condition assessment. Accurate temperature of the field winding is required for proper comparison to the nameplate field resistance calculations. Incorrect nameplate information may also create an invalid reference for resistance and a potential alarm condition. If the corrected field resistance is significantly different than the value of resistance calculated from the nameplate voltage and current, verify the nameplate information is valid, refer to the operating manual for information on the expected field resistance, ensure the dissipation resistors are disconnected, and test directly on the slip rings, in an effort to isolate the cause. Remember, the difference may actually be a field anomaly and not a problem with the nameplate or temperature entry.

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 2013 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.



Tip Of The Week

May 13, 2013

Field Resistance Condition Assessment

Field resistance is temperature corrected and compared to nameplate information for condition assessment. Accurate temperature of the field winding is required for proper comparison to the nameplate field resistance calculations. Incorrect nameplate information may also create an invalid reference for resistance and a potential alarm condition. If the corrected field resistance is significantly different than the value of resistance calculated from the nameplate voltage and current, verify the nameplate information is valid, refer to the operating manual for information on the expected field resistance, ensure the dissipation resistors are disconnected, and test directly on the slip rings, in an effort to isolate the cause. Remember, the difference may actually be a field anomaly and not a problem with the nameplate or temperature entry.

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 2013 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.