



A Leader in Electric Motor Testing

Tip Of The Week

September 17, 2018

Special Applications - Part 3: Synchronous Generator

Continuing with our special applications series from earlier this year, the following are some testing guidelines for Synchronous Generators:

- Ensure the winding temperature is stabilized prior to taking measurements as changing temperatures will dramatically affect the winding resistance.
- If the neutral leads are brought out of the generator separately, make sure they are solidly connected together in the proper configuration (typically Wye). Ensure that the stator windings are isolated from ground by disconnecting any neutral grounding systems (i.e., solid ground, grounding transformer, high resistance ground, etc.).
- When testing rotor fields ensure the rectifier banks and any associated control circuitry are disconnected from the field windings.
- Capacitance to ground (CTG) readings below the minimum measurable by the test equipment may indicate an invalid or improper ground distribution.
- Ensure any surge and/or power factor capacitors are removed from the circuit prior to performing a baseline test.

To read the complete AC Synchronous Generator application note and many other application notes visit our website at: <http://www.pdma.com/PdMA-application-notes.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. 166 or lou@pdma.com.

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