



RESISTÊNCIA DE ATERRAMENTO

Medidas de Resistência de Aterramento (RTG) são muito importantes por revelar a integridade e a limpeza do sistema de isolamento. A questão aparente seria o motivo que se utiliza 5000V para executar o teste RTG em motores acima de 12kV. Segundo a norma IEEE 43-2000 - Práticas Recomendadas para Teste de Resistência de Isolamento em Máquinas Rotativas, as tensões sugeridas para testar motores acima de 12kV seriam no intervalo 5kV-10kV. Adicionalmente, a tensão de teste 2500V-5kV atende a motores entre 5001V-12kV. O teste de Resistência ao Aterramento traz melhores benefícios quando acompanhado por tendências de forma a qualificar motores em operação contínua, e não como um teste de alto potencial e de stress. Portanto, utilizando tensões entre 5kV-10kV num teste de RTG em um motor >12kV é inteiramente satisfatório e consistente com os padrões IEEE aceitos pela indústria.

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Resistance-to-Ground

Upcoming Events

Resistance-to-Ground (RTG) measurements are important as they can indicate the cleanliness and health of an insulation system. Questions often arise about 5000V used to execute a RTG test on motors that are rated >12kV. Per the IEEE Recommended Practice for Testing Insulation Resistance of Rotating Machinery (IEEE 43-2000), 5kV-10kV is the suggested test voltage for RTG tests on motors rated >12kV; in addition, a test voltage of 2500V-5kV for motors rated 5001V-12kV. The RTG is a resistance test, which is best utilized as a trending tool to qualify motors for continued operation, not as a high potential stress test. Therefore, using a 5kV-10kV rated supply to perform an insulation test (RTG) on a >12kV motor is completely satisfactory and consistent with the approved and industry accepted IEEE standards.

For more information on the IEEE standards visit <http://standards.ieee.org/findstds>

You are invited to submit an Electrical Motor Testing Tip of your own and receive a free PdMA mug or hat if we publish it. Contact Lou at lou@pdma.com.

We hope you find our Tip of the Week useful and invite your feedback. For more technical information and to view previous tips visit us at www.pdma.com.

Power Test

February 21-24, 2011

Reliable Plant

April 19 21, 2011

MARTS

April 26-29, 2011

NPRA

May 24-27, 2011

FASA

June 26-28, 2011

SMRP

October 17-20, 2011

IMC/Solution 2.0

December 5-8, 2011