



A Leader in Electric Motor Testing

Tip Of The Week

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Don't Forget the Grease!

Occasionally due to misapplication, voltage irregularity, faulty component, or just plain operator error, we find that we have overheated one of our electric motors. A Class B insulation system is rated for 130°C (266°F). The appropriate action following an overheating situation is to perform a comprehensive insulation test including Resistance-to-Ground, Capacitance-to-Ground, Polarization Index, and even an inner-phase step voltage test. Organizations with advanced maintenance and reliability will have a history or baseline of this data to compare to, resulting in a very high confidence in the health assessment of the insulation system. But what about the bearing grease? According to the National Lubricating Grease Institute (NLGI), a Group 1 general purpose grease has a temperature limit of 121°C (250°F). We need to keep in mind that if the motor overheated, the bearing may also have overheated.

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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