



Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

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Electric Motor Fault Zone Analysis - Insulation

The 3rd of the six electric motor fault zones is Insulation. This refers to the insulation between the windings and ground. High temperatures, age, moisture, and dirt contamination all lead to shortened insulation life. The IEEE 43-2000 standard states that post 1970, form wound insulation systems, should not go below 100 Megohms and most random wound insulation systems should not go below 5 Megohms. Further, the Polarization Index (ratio of 10 minute to 1 minute resistance reading) should be 2.0 or higher. Regular monitoring of insulation integrity will allow early detection of degradation and allow time to correct the problem prior to failure.

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 Martindale at 813-621-6463 ext. 126 or lou@pdma.com.

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