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Standards Associated With Electric Motor Testing, Part 3

IEEE1415™ is the Guide for Induction Machinery Maintenance Testing and Failure Analysis. Section 4 – Maintenance Inspections and Tests discusses various test methodologies utilized for maintenance testing and failure analysis.

Among the tests referenced is Current, Starting. The first stage, often referred to as in-rush current involves the magnetization current and lasts less than one second. The second stage, commonly called starting current (referenced by PdMA as start-up current), is the elevated current seen immediately following the in-rush current and eventually reducing to steady state. A change in either the in-rush or starting current may indicate a problem with the motor, shaft line components, or power supply.

For more information on how the MCEMAX performs In-Rush/Start-Up analysis go to EMAX Fault Zone – (http://www.pdma.com/PdMA_emaxfaultzone_rotor.php). For more information on the IEEE 1415 standard go to IEEE Standards (<http://ieeexplore.ieee.org/xpl/standards.jsp>).

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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