
December 15, 2008

Standards Associated With Electric Motor Testing, Part 2

IEEE 519™-1992 is the Recommended Practices and Requirements for Harmonic Control in Electric Power Systems. Section 10 - Recommended Practices for Individual Consumers discusses voltage and current distortion limits. These limits are applied to the point of common coupling (PCC), which is the point between the non-linear load and other loads within an industrial plant. For a utility company the PCC is the consumer-utility interface. Maintaining compliance to the harmonic limits at the plant level PCC should ensure that the utility PCC does not exceed the limits specified in Table 10-2—Low-Voltage System Classification and Distortion Limits. The general system limit for Total Harmonic Distortion (THD) is 5% and the general system limit for notch depth is 20%.

For more information on how the MCEMAX performs power quality analysis go to EMAX Fault Zone - Power Quality (http://www.pdma.com/PdMA_faultzone_powerquality.php). For more information on the IEEE 519 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.

Copyright 2008 PdMA Corporation. All rights reserved. The PdMA Tip of the Week is produced by PdMA. PdMA shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon.