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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.