



Tip Of The Week

September 7, 2009

Guaranteed Efficiency

Now that many more of us are looking at motor nameplate data, with emphasis on finding out what the efficiency is, what the heck is "Guaranteed Efficiency"?

Guaranteed minimum is another efficiency that is sometimes noted on a nameplate. This value is determined from a mathematical relationship that assumes the worst efficiency of any motor in a batch — used to determine the average (nominal) value — could have losses as much as 20% higher than the average. As a result, each nominal efficiency value would have a corresponding minimum efficiency value. You can view these values in Table 12-8 in NEMA MG-1.

Remember, when working with PdMA's Energy Cost Analysis program not to confuse this with the Full Load Efficiency. You want to use Full Load Efficiency in the program for your analysis.

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 2009 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.