



A Leader in Electric Motor Testing

Tip Of The Week

October 5, 2015

VFD Considerations - Part 3

To wrap up our series of VFD tips we wanted to focus on the start-up of a VFD. One big advantage of a VFD is the low electrical stress felt by the motor during the start-up. Unlike across the line starts where a motor experiences full voltage and a very high immediate in-rush current, a VFD can slowly increase the voltage applied to a motor. This will produce a gradual increase in the current and torque as well, resulting in a controlled low stress start-up. It is important to know the start-up times for your VFD so you can properly set up your test equipment to capture the complete start-up. If you are set up with a pre-trigger looking for a predefined value of current it may take many seconds to reach that level. With the latest MCEGold® software you can capture six channels of voltage and current with the In-Rush/Start-Up test and adjust the pre-trigger save length. This will allow you to watch not only the performance of the drive, but the motor as well throughout the entire start-up and beyond.

To see a case study of the six channel In-Rush/Start-Up test applied to a VFD after start-up visit our website at:
http://www.pdma.com/webinars/Six_Channel/Six_Channel.mp4

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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