



# Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

**February 25, 2007**

## Trending Inverter Input Rectifier and Output IGBT Devices

In a previous tip (November 26, 2007), we talked about testing invertors by setting up two motor profiles, line side of the inverter and the load side. In the most basic sense, look for differences in the phase-to-phase graphs in both voltage and current, any differences need to be further investigated. Input currents will have the typical “m” humps in current that most full wave rectifiers bridges exhibit and output voltages will show a low resolution capture of the carrier frequency. With these captures, we can sometimes spot failing components before catastrophic failures occur.

Always remember to disconnect your VFD from the motor when you are doing MCE (offline) testing.

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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](mailto:lou@pdma.com).

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