



A Leader in Electric Motor Testing

# Tip Of The Week

---

April 17, 2017

## VFD Tripping?

A few weeks ago we discussed what could be the cause of a motor tripping and some actions to take following such an event. This week's tip will focus on a Variable Frequency Drive (VFD) tripping. One of the more common conversations in technical support, week in and week out, is whether the source of the problem is the motor or the drive. Motors powered by VFD's may require additional testing following a trip identified by the VFD diagnostics as a stator related anomaly. If the phase-to-phase insulation is damaged or weak the rapid voltage rise seen from many drives can result in phase-to-phase currents sufficient to trip the VFD, but not result in lower inductance or ground wall resistance. By isolating and testing the insulation between phases you can better determine the root cause of the trip.

Visit [http://www.pdma.com/pdfs/appnotes/0601-Isolating\\_the\\_Cause\\_of\\_a\\_VFD\\_Trip.pdf](http://www.pdma.com/pdfs/appnotes/0601-Isolating_the_Cause_of_a_VFD_Trip.pdf) for a detailed application note on advanced non-destructive testing of phase-to-phase insulation.

You are invited to submit an Electric Motor Testing Tip of your own and receive a free PdMA<sup>®</sup> mug or hat if we publish it! Contact Lou at 813-621-6463 ext. 126 or [lou@pdma.com](mailto:lou@pdma.com).

Copyright 2017 PdMA<sup>®</sup> 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.