



## Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

**February 5, 2007**

### Dynamic DC Motor Analysis - Brush Arcing & Sparking

Detecting when the brushes are off the magnetic neutral axis can be difficult, especially if the motor is inaccessible during operation. Using voltage analysis in the time domain and monitoring the signal for transients characteristic of arcing at the brush face, can make the job of properly setting the brushes for the desired load much easier.

To see an example and read more about this technique please visit  
[www.pdma.com/PDF/Articles/Online\\_Fault\\_Analysis\\_of\\_DC\\_Motors.pdf](http://www.pdma.com/PDF/Articles/Online_Fault_Analysis_of_DC_Motors.pdf)

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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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