



## Electric Motor Testing Tip of the Week

revolutionizing *electrical* reliability

October 30, 2006

### Identifying Belt Frequencies

When establishing band alarm limits in the advanced spectral analysis current demodulation for belt frequencies, remember the easiest way to identify belt frequency is with a strobe light. In the absence of a strobe light you can use the following:

Belt Frequency =  $3.142 (D/L) \times (RPM/60)$   
D is Diameter of the motor mounted pulley  
L is the length of the belt  
RPM is the motor speed

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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 Martindale at 813-621-6463 ext. 126 or [lou@pdma.com](mailto:lou@pdma.com).**

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