



Tip Of The Week

November 12, 2012

Establishing Band Alarms

When establishing band alarms for mechanical frequency peaks in a demodulated current spectrum, remember to consider the load on the machine at the time of the test. Mechanically induced peaks like belt frequency or vane pass frequency are speed dependent and may vary significantly with the load. If the load is low, the speed of the machine will be higher due to less slip. Therefore, the band alarm should be extended more to the lower frequency side of the existing mechanical frequency peak seen during the test. If the load is high, the speed of the machine will be lower due to more slip and the band alarm should be extended more to the higher frequency side of the mechanical frequency peak seen during the test. In either case you are establishing a band alarm that is designed to encompass the changing peak frequency throughout the no-load to full-load range of the machine operation.

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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