



A Leader in Electric Motor Testing

Tip Of The Week

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Skewed Rotor Bars...Why?

If you take a good look at your squirrel cage induction rotor you might see that the rotor bars are not truly parallel with the shaft and that they actually have a skewed look as if someone grabbed both sites of the rotor and twisted in opposite directions. Following are four reasons why the motor designers may have chosen to skew the bars:

- Increases slip for a given torque
- Prevents cogging (no rotation on start due to stator slot rotor bar combinations)
- Increased rotor resistance due to skewed rotor bars being longer
- Reduces magnetic hum making the motor quieter

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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