

June 13, 2011

Test Your Knowledge

This is the final Test Your Knowledge question in this series. Next week we will return to the tip format.

DC Motor

A short between turns in the commutator riser section of a DC motor will cause the armature current to respond in which of the following ways?

- A. No change
- B. Steady decrease in armature current
- C. Modulating armature current
- D. Steady increase in armature current

The correct answer is C. A short in the commutator riser section of a DC motor will result in varying armature circuit resistance and corresponding current each time the commutator segment associated with the shorted circuit enters and exits the brush surface.

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.