

August 29, 2011

Test Your Knowledge, Part 10

What physical parameters affect the inductance of an AC induction motor (neglecting fringing flux)?

- a. Core area, air gap length, number of turns
- b. Core area, air gap length, number of turns, magnetic circuit length
- c. Core area, air gap length, number of turns, incremental permeability of the steel
- d. None of the above
- e. All of the above

Answer: (e.) All of the above – Core area, air gap length, number of turns, magnetic circuit length, and incremental permeability all affect the inductance of an AC induction motor.

For more information see Fault Zone Analysis - Identifying Motor Defects Using the Rotor Fault Zone at:
<http://www.pdma.com/PdMA-articles.php>.

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