

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT
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EE-360

Key Solutions

Quiz # 5 Serial #

Name:

I.D.#

Circle the correct answer.

1) The breakdown torque is the (...) torque of a polyphase (...) and the pushover torque is the (...) torque of a polyphase (...).

a. starting induction-motor minimum induction-generator

b. maximum induction-motor maximum induction-generator

c. maximum induction-motor minimum induction-generator

d. full-load induction-motor minimum induction-generator (5 Marks)

2) The starting torque of a 25-hp, 4-pole, 60-Hz, 440-V, 3-phase, induction motor is 174 N-m. When the rotor resistance reduces by 50 %, its starting torque become approximately

a. 348 N-m.

b. 174 N-m.

c. 87 N-m.

d. none of above.

(5 Marks)