KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

ELECTRICAL ENGINEERING DEPARTMENT

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EE-360

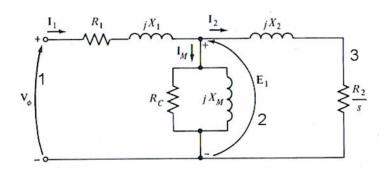
Key Solution

Quize # 8 Serial #

Name:

I.D.#

1) In the per-phase equivalent circuit of a polyphase induction motor shown below, number "1" is the (....) power, number "2" is the (....), and number "3" is the (....) power.



- a) electrical input; converted; mechanical output
- b) electrical input; air-gap; mechanical output
- c) electrical input; air-gap; converted
- d) mechanical input; converted; electrical output
- 2) Athree-phase, 60-Hz, induction motor has a full-load speed of 1100 rpm. The number of poles and the slip of the motor are:
- a) 4-pole; 0.39
- b) 4-pole; 0.64
- c) 6-pole; 0.083
- d) 6-pole; 0.091