KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

ELECTRICAL ENGINEERING DEPARTMENT

Dr. Ibrahim O. Habiballah

EE-360

Key Solution

Name:

Quize # 8 Serial #

I.D.#

1) The figures below show one phase of a 2-pole ployphase induction motor where the winding in Fig. 1-a is a (....) winding and has been connected, as shown in Fig. 1-b, as a (....) winding in order to (....) the speed of the rotor.

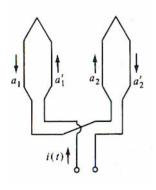


Fig 1.a

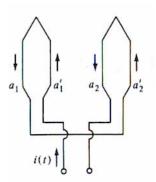


Fig. 1.b

- a) two-pole; four-pole; increase
- b) two-pole; four-pole; reduce
- c) four-pole; two-pole; increase
- d) four-pole; two-pole; reduce
- 2) A 4-pole, 60-Hz, 3-phase, induction motor has a full-load speed of 1740 rpm. At half-load, its speed would be :
- a) 1800 rmp
- b) 1770 rmp
- c) 900 rmp
- d) 770 rmp