

Program: electrical- Robert Gotzon instructor

Unit 187

Lesson Title: Motor control ac voltage

T-O Connect a single –phase ac motor to run on different voltages. And by this knowledge will be shown by correctly performing the assignments and scoring no less than 100% on the test.

E-O The student will be given a dual voltage split –phase motor to connect to a mechanical load ,a clamp on ammeter, a multimeter, a dual voltage power supply, connection diagram as furnished by manufacturer, and a standard tool kit for electricians,connect the single-phase ac motor to run on different voltages. The motor must pull it's load with each applied voltage,and the current drain must be in inverse proportion to the change in voltage in accordance with connection diagram on motor also must be wired to national electric code.

Related PA Academic standards:

English 1.1.11

Math 2.2.11,2.3.11,2.6.11,2.7.11,2.8.11

This will show that motors will work on 2 different voltages

The student will connect a single –phase ac motor to run on different voltages

The student will work from instructor check list and all work will be done to the 1999nec

Split phase, dual voltage,load, current drain. These are new vocab .words to be put into note book

What happens to the amps when the load become lite and when its increased.

Materials needed: motor dual voltage,volt meter, ammeter , instructors check list

Reference: Motor control11996