**Unit: Manual Motor Controls Job: 26**

**Title: Time Off-Delay for 3 Phase Mtr. CLO# 1,2**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Station \_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Objectives**

1. Student shall develop an understanding of a Time-Off Delay relay.
2. Student shall enhance motor control design skills.
3. Upon completion, a student shall have a more complete knowledge base for creating proficient motor control circuits.

**Assessment**

Students shall demonstrate a comprehension of the objectives listed above by scoring a minimum of 75% on this shop job. Grading shall be based on the Manual Motor Controls rubric.

**Instructions**

Design a time delay motor control circuit using two momentary pushbuttons and time delay relay. One pushbutton shall be a traditional “start”. When the motor is started, it shall run for 15 seconds then shut off. This shall be done using an Off-Delay relay in conjunction with a three-phase motor starter. The other pushbutton shall be a “stop” pushbutton. The green light shall indicate “running”, the red light shall indicate “stopped” and the yellow light shall indicate “overload”. Use the space on the opposite side of this page to design your circuit. Once complete, review your design with your instructor. After obtaining approval, you may wire your circuit. Ensure to label all wires with the appropriate wire numbers. Have your instructor review your wiring before energizing your circuit.

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