Motor Controls Lab #2 Manual Motor Starter JD Jones

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Point Value = 100 points

I want to stress the safety issue when you are working with electricity. You will now be working with 208 VAC 3 phase. This can KILL you. DO NOT POWER UP UNTIL THE INSTRUCTOR IS PRESENT.

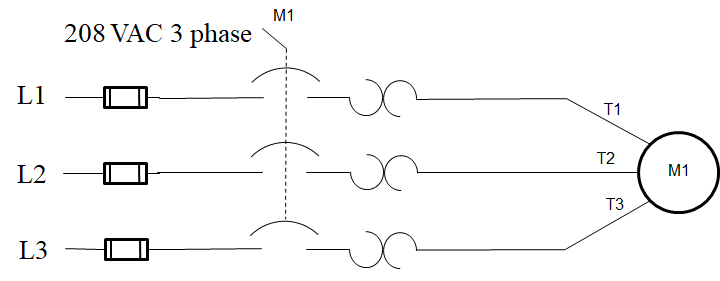
Remember to use the correct wire colors.

Red = 120 VAC

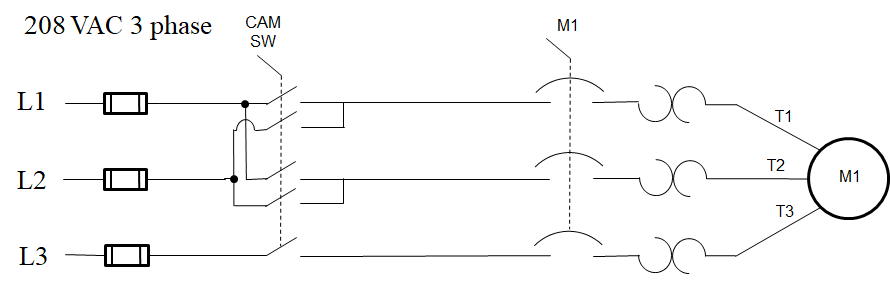
White = Neutral (anything after the load)

Black = anything above 120 VAC

**Manual Motor Starter Ladder**



**Manual Motor Starter Ladder with Cam Switch**



**Describe how the overloads work? 5 points**

**What do overloads protect? 5 points**

**List 5 important items to match up when replacing a bad motor? 5 points**

**1)**

**2)**

**3)**

**4)**

**5)**

Points for

a) Answering the questions correctly. 15 pts

b) Assembly of the ladder with manual motor starter. 20 pts

c) Assembly of the ladder with manual motor starter with cam switch. 20 pts.

d) Assembly of the motor wiring. 20 pts

e) Correct wire colors 10 pts

f) Rung number and cross reference 10 pts

g) Safety glasses and all ground are connected 5 pts

INSTRUCTOR’S INITIAL\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_