

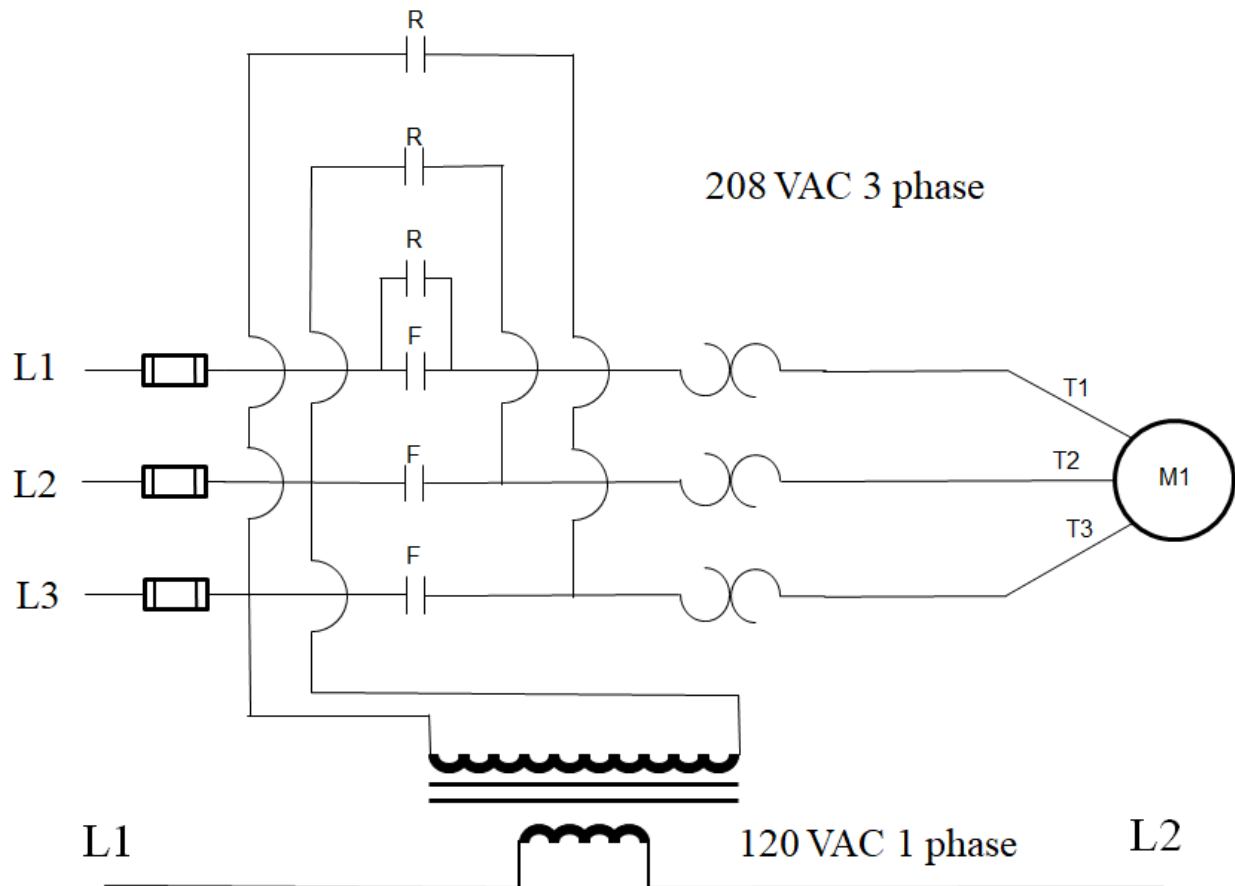
Name \_\_\_\_\_

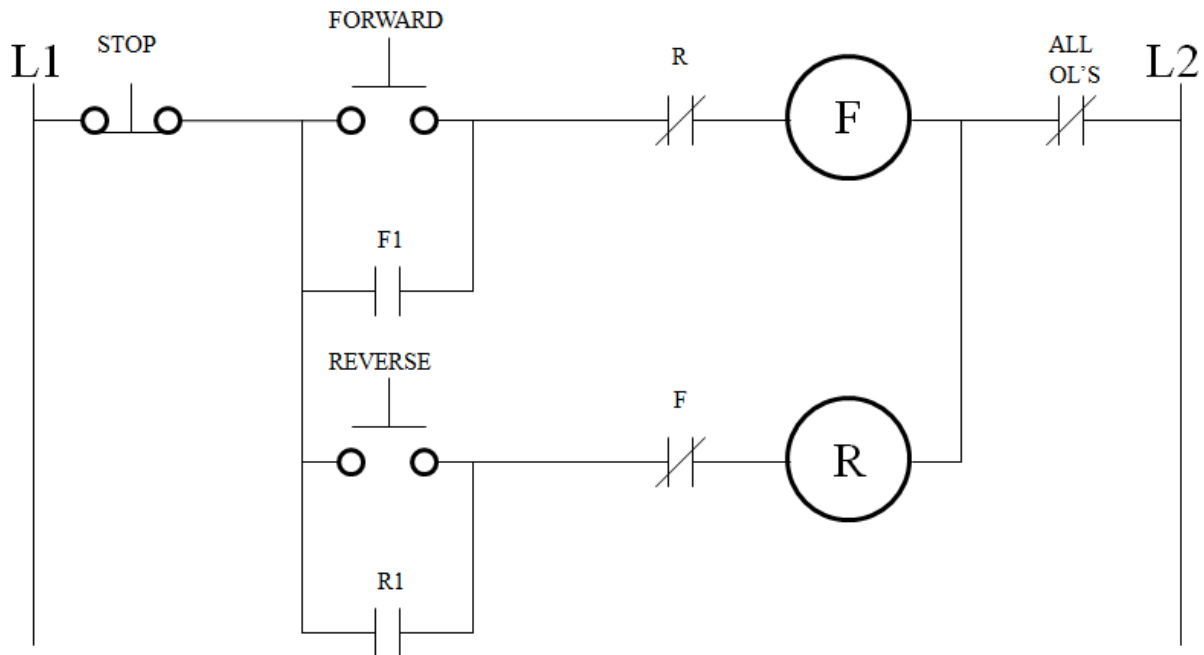
Points \_\_\_\_\_ / 100

In this lab you will be wiring up a forward and reverse motor circuit. Again I want to warn you of the dangers of electricity.

Wire up the circuit below but don't power up until the instructor has approved it.

**You will be wiring up the same circuit 2 times.** The difference will be what brand of motor starter you will use. You will use 2 different brands and one will be 120 VAC and the other will be 24 VDC. You will not be allowed to use the N (Neutral) on the disconnect module.





Troubleshooting time. The instructor will introduce issue number 5 now. You will have to fix the machine as quick as possible.

Points for fixing the machine.

- a) Less than 10 minutes = 25 pts
- b) Between 10 and 15 minutes = 15 pts
- c) Between 15 and 25 minutes = 5 pts
- d) Over 25 minutes = 0 pts

Points for

- a) Assembly of the ladder 120 VAC control 20 pts
- b) Assembly of the ladder in 24 VDC control 20 pts
- c) Written explanation of the ladder diagram 20 pts
- d) Rung number and cross reference 10 pts
- e) Safety glasses and grounds are all connected 5 pts

INSTRUCTOR'S INITIAL \_\_\_\_\_