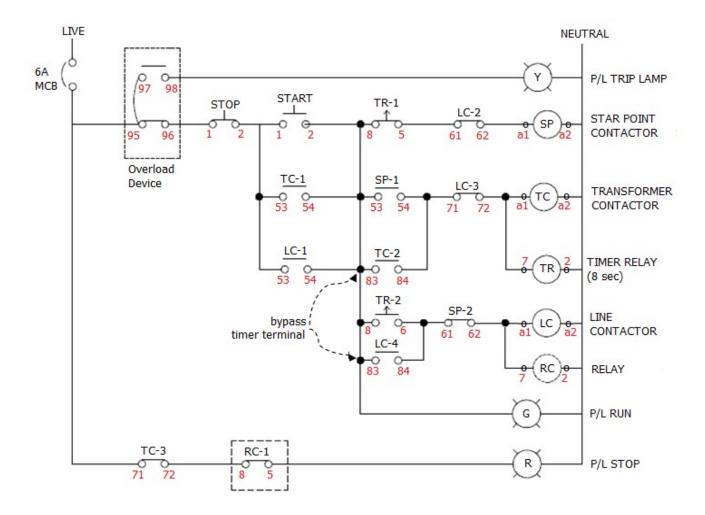
-- For candidates --

Task 2: Candidate are required to perform motor circuit wiring of a AUTO-TRANSFORMER motor starter circuit by referring to diagram below.



Instruction:

- 1. All wires for control circuit shall be using 1.5mm² any colour cable.
- 2. Neutral shall be only using black colour conductor.
- 3. LC, TC and SP contactor supply coil shall be a1 and a2 neutral.
- 4. Timer relay base supply coil is 7 (LIVE) and 2 (Neutral).
- 5. Ensure no loose coming out of terminal screw.
- 6. Relay (RC-1) is used to control RED indicator lamp.
- 7. Test the control circuit operation by connecting L and N to terminal.
- 8. Detail component can refer to appendix page.

Task 2.2 : Auto-Transformer Power diagram

-- For candidates -

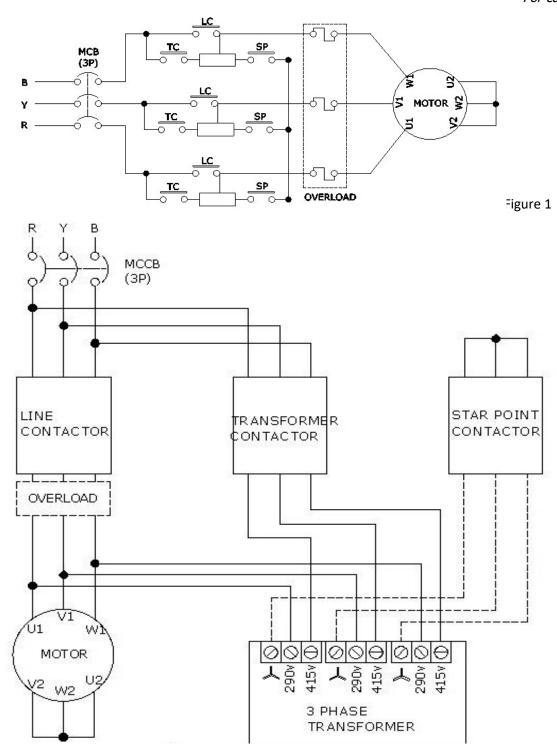
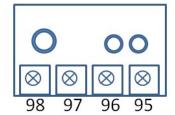


Figure 2 power circuit.

Instruction:

- 1. All wires for power shall be using 2.5mm² about 7 set RYB cables.
- 2. Ensure all terminal are secure before energize the three phase supply.

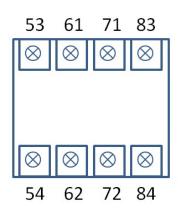
Overload



Overload device terminal label and contact number.

Terminal No Contact

| 95 – 96 | Normally Close |
|---------|----------------|
| 97 – 98 | Normally Open |



Auxiliary contact can be found on contactor surface clipped and can easily be removed on white clip near 61.

<u>Terminal No</u> <u>Contact</u>

| 53 – 54 | Normally Open |
|---------|----------------|
| 61 – 62 | Normally Close |
| 71 – 72 | Normally Close |
| 83 – 84 | Normally Open |



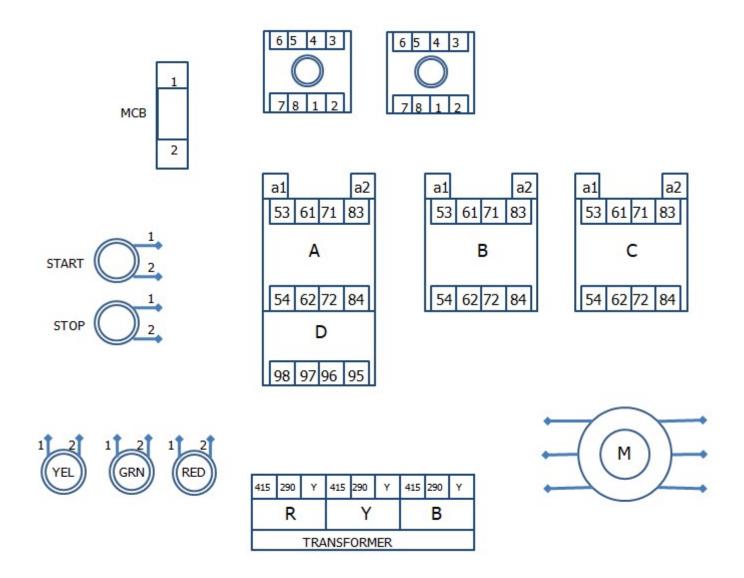
Timer base or relay base can be found on the motor board.

Terminal No Contact

| 8 – 6 | Normally Open | |
|-------|---|---|
| 8 – 5 | Normally Close 1 st set contac | t |
| 1 - 4 | Normally Close | |
| 1 - 3 | Normally Open 2 nd set contact | t |
| 7 – 2 | coil supply 7(L), 2(N) | |

Note:

- 1. Ensure all terminal is identified.
- 2. Maximum total conductor on single terminal shall not more than two(2).
- 3. Use test pen size when doing work on relay/timer base.



Contactor A (LC), Contactor B (TC), Contactor C (SP), D (OL), M(Motor)