

071606T4MCT

MECHATRONICS TECHNOLOGY LEVEL 6

ENG/OS/MC/CR/02/6/A

Install Mechatronic Systems

March/April 2025



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL
(TVET CDACC)**

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INSTRUCTIONS TO CANDIDATE:

1. Figure 1 is a power circuit for three-phase motor control. You are required to perform the following tasks:

TASK 1: Inspect all the resources.

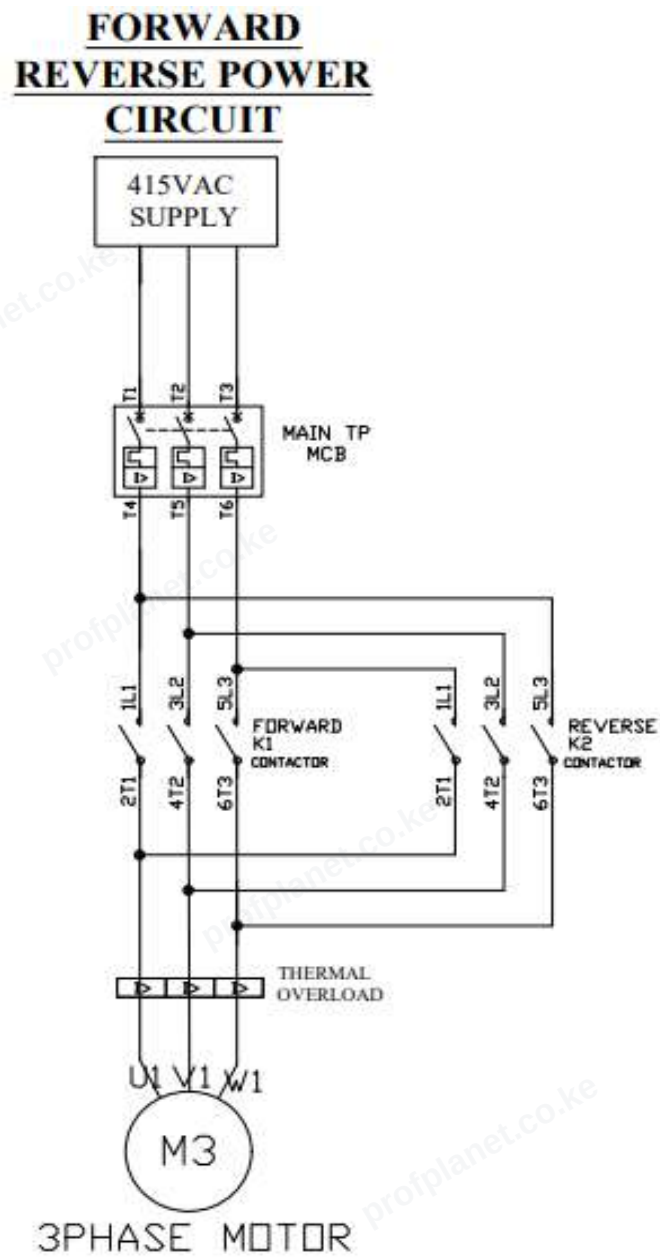
TASK 2: Draw the forward-reverse motor control circuit.

TASK 3: Install the motor.

TASK4: Operate and measure the speed of the motor.

2. You are provided with the following resources:

- i. 3-phase motor
- ii. Contactors
- iii. Overload relay
- iv. Circuit breaker
- v. Normally closed pushed button
- vi. Normally open pushed button
- vii. 4.0 mm^2 red, yellow, and black, green single-core cable
- viii. 2.5 mm^2 red, yellow, and black, green single-core cable
- ix. Rails
- x. Multimeter
- xi. Phase Tester
- xii. Screwdriver set
- xiii. Side Cutter
- xiv. Wire stripper
- xv. Tachometer
- xvi. Electrical Pliers
- xvii. Ball pein Hammer
- xviii. Reflective ribbon/film

Power circuit*Figure 1*