©2025 TVET CDACC

071305T4EOP

ELECTRICAL OPERATION (POWER OPTION) LEVEL 5

ENG/OS/PO/CR/03/5

Install Electrical Machines

July/August 2025

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

easytvet.com

PRACTICAL ASSESSMENT

Time: 6 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks

   Task 1: Draw the power and control wiring diagram for the motor star-delta operation.

   Task 2: Install the three-phase motor in **figure 1** using heavy gauge PVC conduit wiring system.

   Task 3: Carry out the following tests

   a) Continuity test;
   b) Polarity test;
   c) Earth resistance test.

   Task 4: Test for functionality.

2. You have been provided with the following resources for the practical tasks:

   i. 3-Phase D.B.
   ii. 415V electromagnetic contactor
   iii. Start-Stop button
   iv. 3 Phase Induction Motor
   v. Three phase isolators
   vi. 2.5mm2 PVC single core cable R/B/G
   vii. Wooden screws
   viii. 20mm flexible PVC conduit
   ix. 20 mm PVC switch box
   x. Heavy gauge PVC conduit
   xi. Saddles
   xii. Male and female bushes
   xiii. 2.5 mm lags

easytvet.com

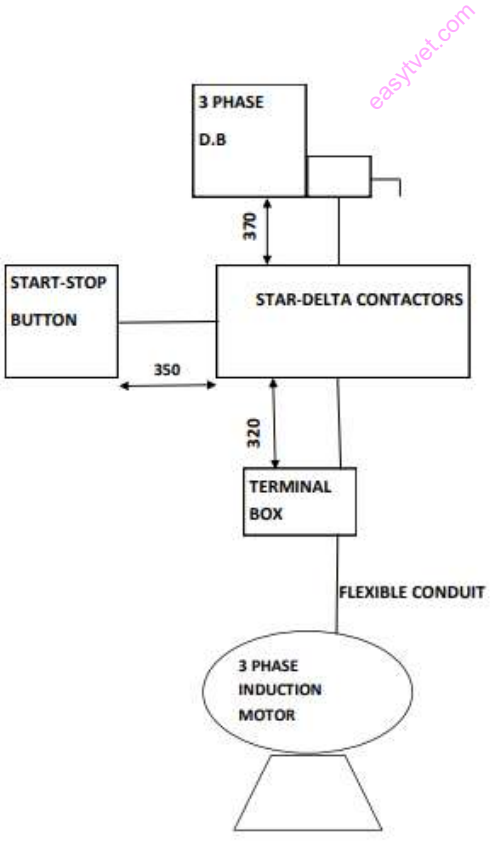


Figure 1