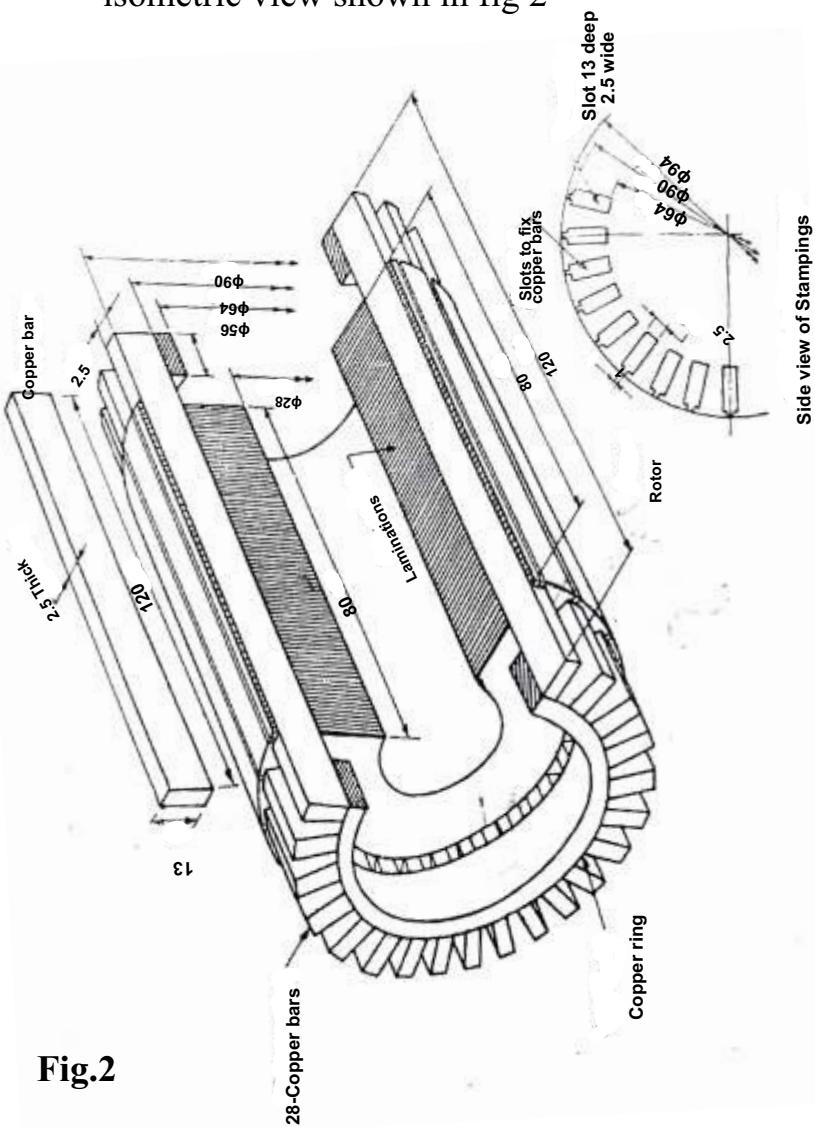


Draw the Front view in upper half section and side view of a squirrel cage induction motor as per isometric view shown in fig 2



**Fig.2**

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126544

**4th Sem / Elect & Eltx Engg.  
Subject:- Electrical Engineering Design and Drawing**

Time : 3Hrs.

M.M. : 100

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory  $(10 \times 2 = 20)$

Q.1 Draw the symbols of Following (any ten)

- i) Spot light
- ii) Main Fuse board with switches Power
- iii) Rewire able fuse
- iv) Battery
- v) Electric heater
- vi) Intermediate switch
- vii) Circuit breaker
- viii) Buzzer
- ix) Alternator
- x) Ammeter
- xi) Socket outlet 3 pin, 5Amp
- xii) Moving iron instrument

## **SECTION-B**

**Note:** Attempt all Questions.

- Q.2 Draw the wiring system for house having Energy meter, ELCB, Main switch. The circuit should contain separate control panels for lighting and power circuit with five and two sub circuit respective 15

Q.3 Draw the schematic and wiring diagram for a chemical process in which two induction motors getting supply two selected feeders 25

OR

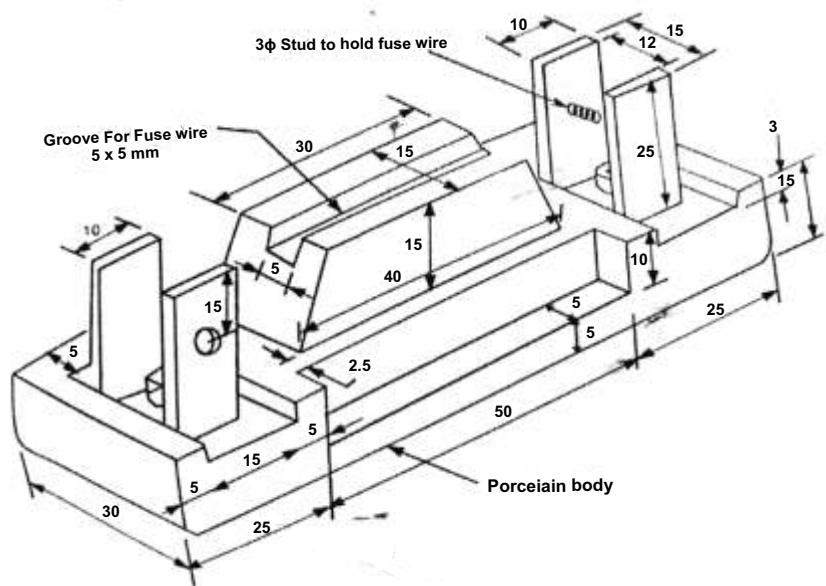
Draw the schematic and wiring diagram for Automatic star/delta starting of a three phase induction motor along with overload protection.

- Q.4 A) Explain the following Auto CAD commands 10

  - i) New
  - ii) Export
  - iii) Erase
  - iv) List
  - v) Explode

B) Draw the free hand sketch of MCB 05

**Q.5** Draw the front view, side view and top view of kit-kat fuse shown in fig 1 25



**Fig.1**