

## EXPERIMENT-2

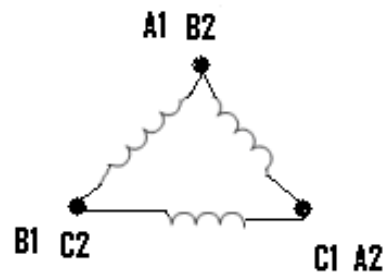
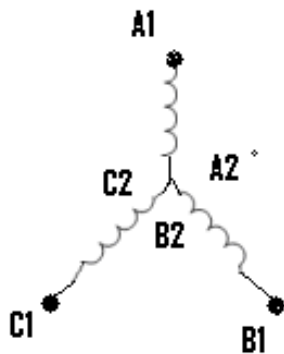
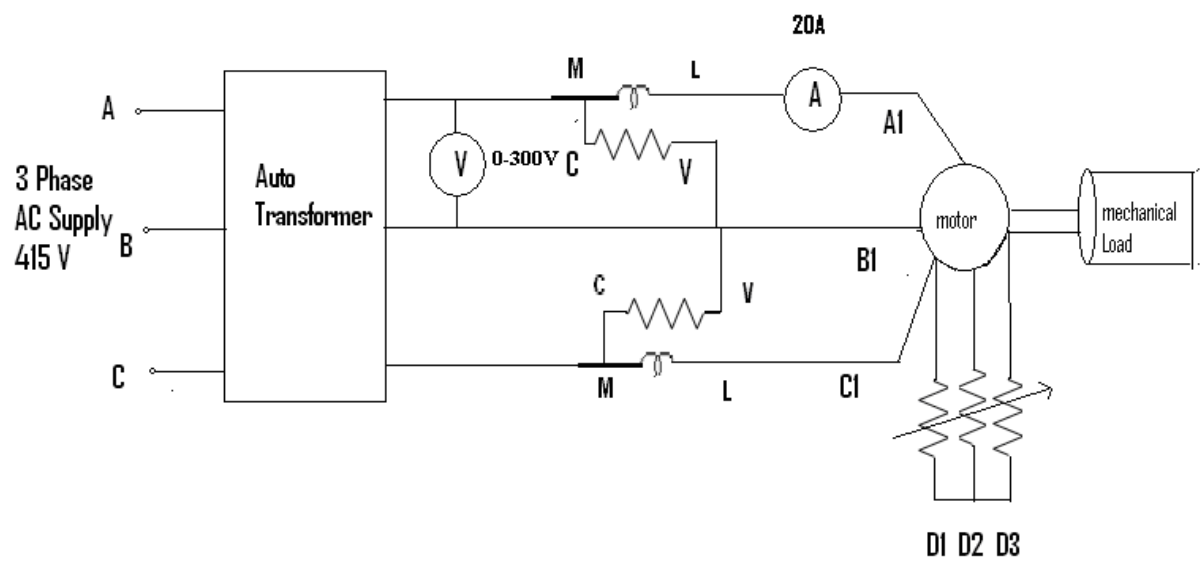
### OBJECTIVE

To draw the torque slip characteristic of three phase induction motor.

### APPARATUS REQUIRED

Three phase Induction Motor, 2- wattmeter (20A, 300W), Ammeter 20A, Voltmeter (0-300V), Tachometer, loading arrangement and starting arrangement.

### CIRCUIT DIAGRAM



## **PROCEDURE**

Set up the experiment as given in the circuit diagram.

- a) Motor is started by using Auto transformer.
- b) When motor attains a steady state speed record the applied voltage, current and also the wattmeter reading to measure power at no load and tachometer reading to measure speed of induction motor.
- c) Now start loading the motor and note down reading of wattmeter and speed of induction motor.
- d) Calculate the slip of machine and its torque.
- e) Draw torque Vs slip curve.

## **OBSERVATIONS**

$$V_o = 300V$$

$$I_o = 1A$$

S.NO	V	I	W1	W2	N

## **PRECAUTIONS**

1. Avoid loose connections in the circuit.
2. Readings should be taken without parallex error.

## **RESULTS**