

## AIM OF THE EXPERIMENT

To observe Speed control of DC Motor using

(A) Variation of armature circuit resistance.

(B) Variation of field circuit resistance.

## APPARATUS REQUIRED:

SLNO	NAME OF APPARATUS	RANGE	QUANTITY
1	moving coil type ammeter	0-5A	1
2	moving coil type ammeter	0-3A	1
2	moving coil type voltmeter	0-300V	1
3	Rheostats	0-300ohms, 2Amp	1
4	Rheostat	50 Ohms, 5Amp	1
5	Tachometer	0-1000RPM	1
6	DC shunt Motor With Starter	7.5HP, 1200RPM, 220V, 30Amp	1
7	S.P.S.T switch		1

## THEORY:

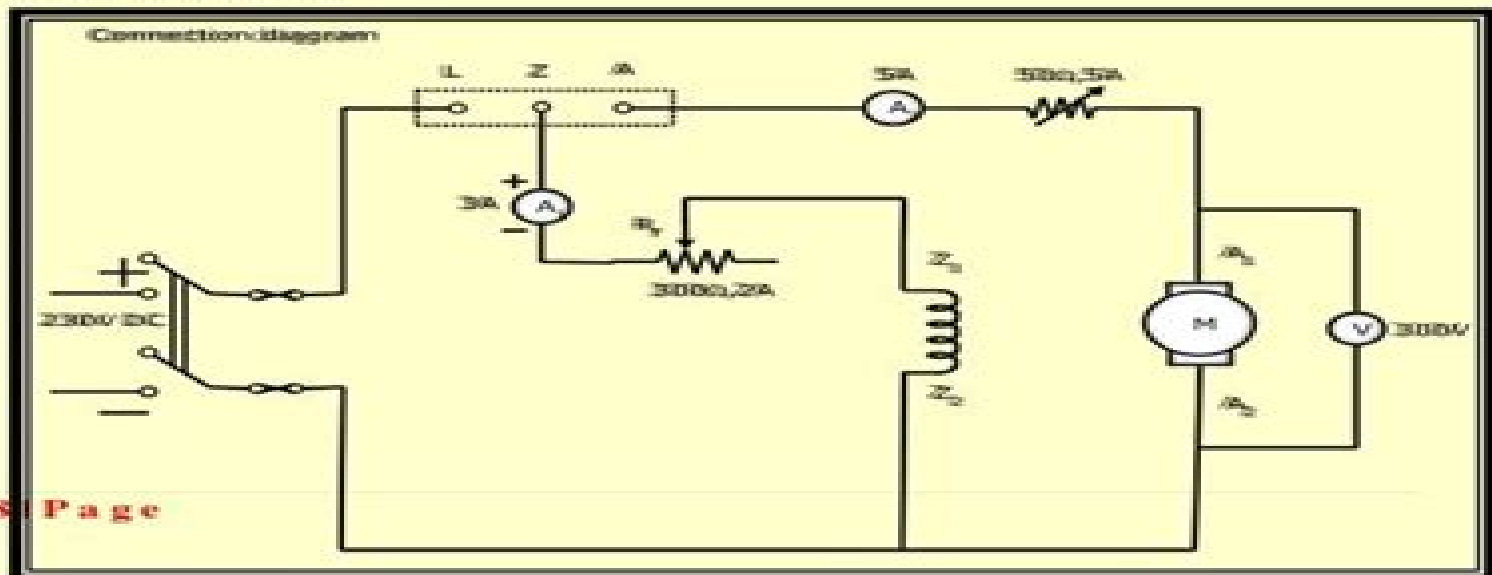
If  $V$  is the applied voltage across the motor terminals,  $E_b$  is the back emf developed, then  $V = E_b + I_a R_a$ . Where  $I_a$  and  $R_a$  the current and resistance in the armature circuit respectively.

But,  $E_b = \frac{\phi ZNP}{60A} = K\phi N$ . Hence  $V = K\phi N + I_a R_a$  i.e.  $N = \frac{K}{\phi} \cdot \frac{(V - I_a R_a)}{1}$

This shows that:-

- An increase in the  $I_a R_a$  drop will decrease the value of speed if  $V$  remains constant.
- Speed varies inversely as the field flux and hence varies inversely as the exciting current, if below saturation. Thus, by increasing the resistance in the armature circuit, a motor can be operated at speed below normal. By increasing the resistance in the field circuit, a motor can be operated at speeds above normal.

## CIRCUIT DIAGRAM :



# Electrical Lab Manual Vii

**RJ Shavelson**



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