

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:

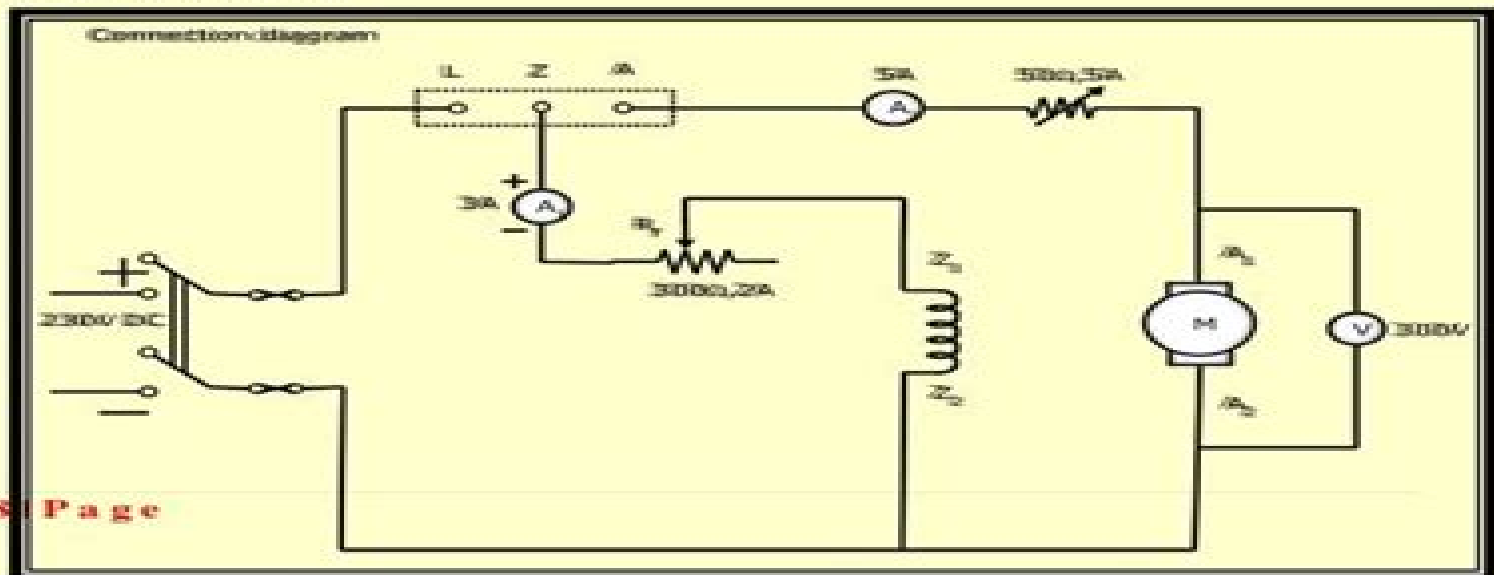
If V is the applied voltage across the motor terminals, E_b is the back emf developed, then $V = E_b + I_a R_a$. Where I_a and R_a the current and resistance in the armature circuit respectively.

But, $E_b = \frac{\phi Z N P}{60 A} = K \phi N$. Hence $V = K \phi N + I_a R_a$ i.e. $N = \frac{V - I_a R_a}{K \phi}$

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

Sampson Low



Electrical Lab Manual Vii:

Unveiling the Magic of Words: A Report on "**Electrical Lab Manual Vii**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Electrical Lab Manual Vii**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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