



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND DESIGN

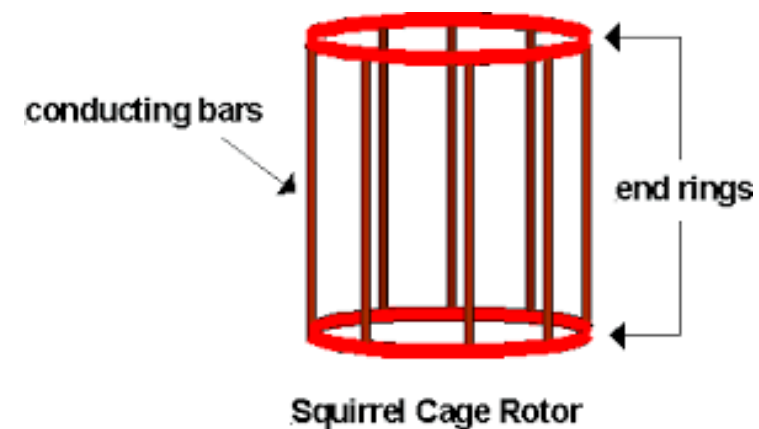
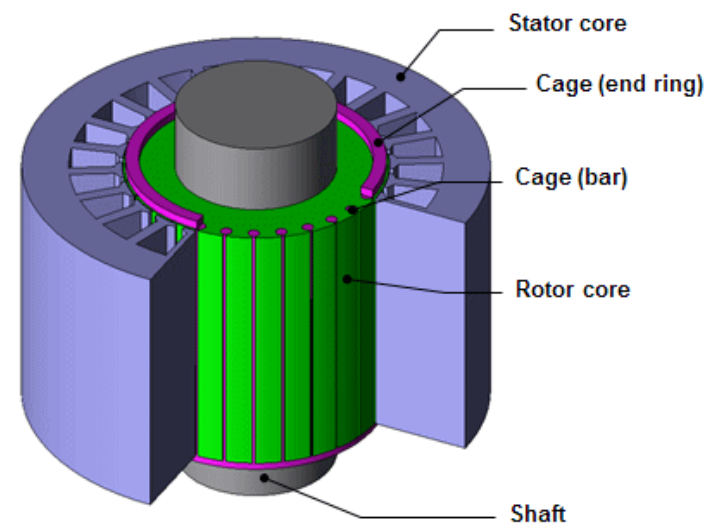
COURSE NAME : 19EE01 BASIC ELECTRICAL AND ELECTRONICS ENGINEERING

I YEAR /II SEMESTER - COMPUTER SCIENCE AND DESIGN

Unit 2 – ELECTRICAL MACHINES

Topic 1 : Induction Motor

CONSTRUCTION OF INDUCTION MOTOR



SINGLE PHASE IM WORKING PRINCIPLE

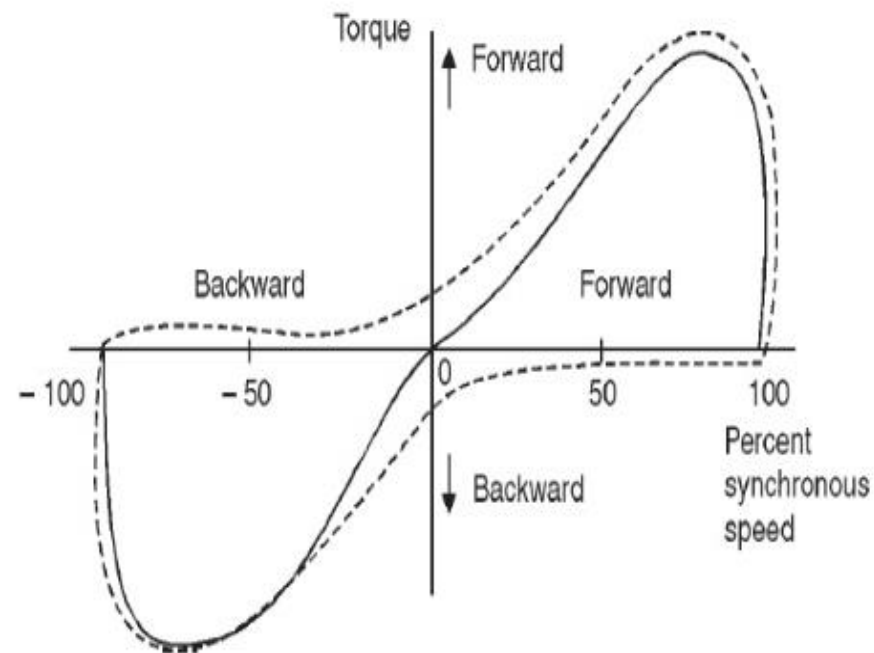
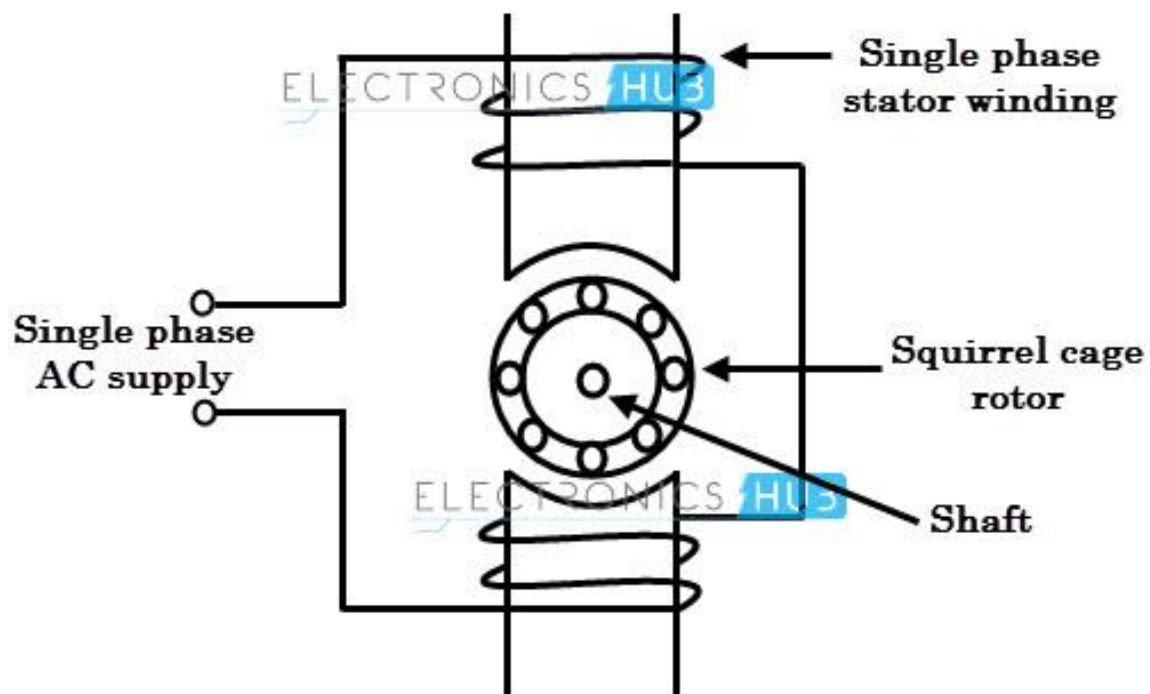
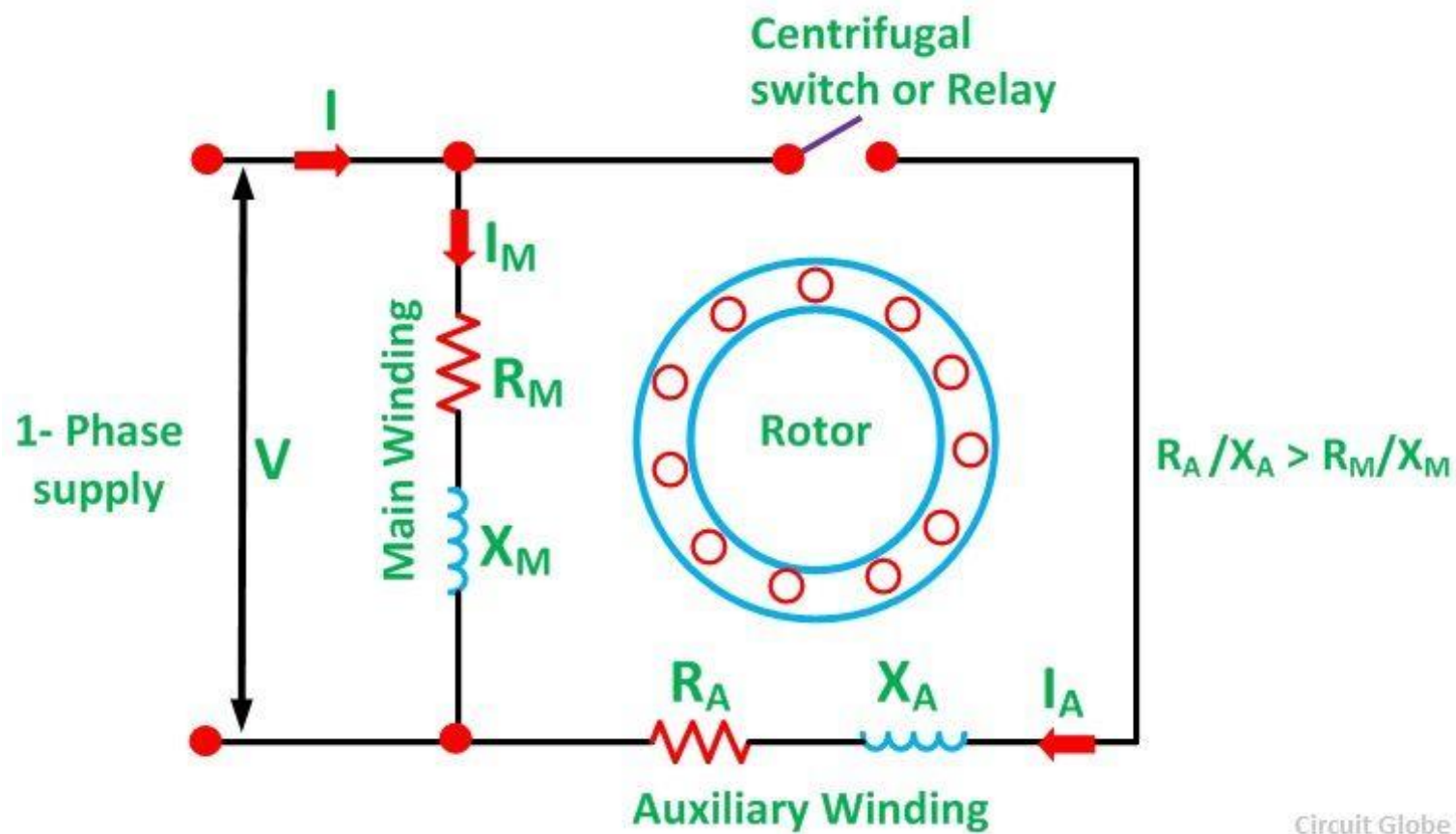


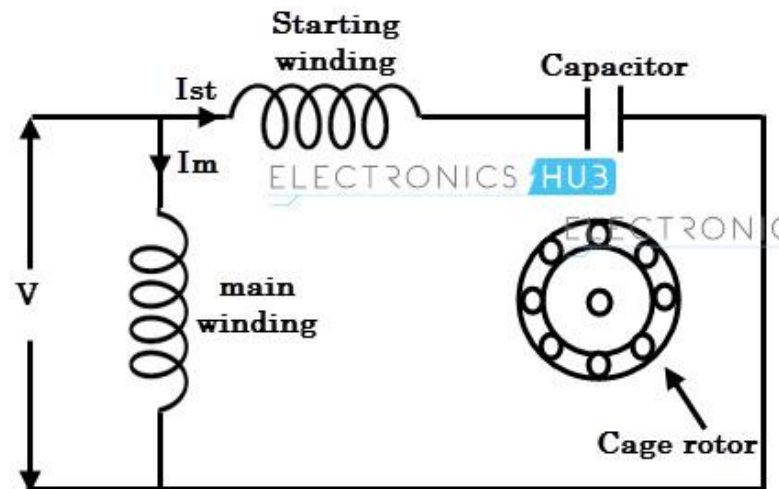
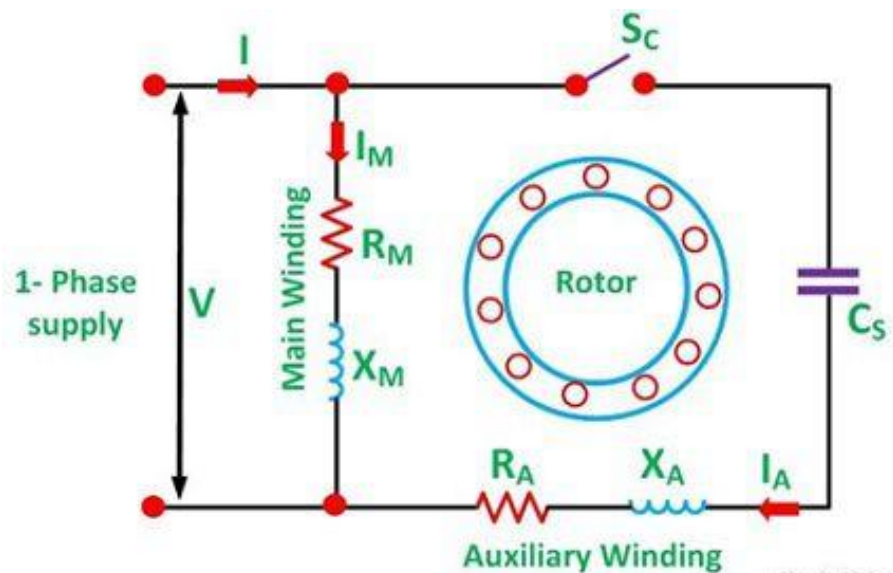
Fig. 9.4. Torque-speed characteristic of a 1-phase induction motor taking into account changes in the flux waves.

SPLIT PHASE 1PH INDUCTION MOTOR



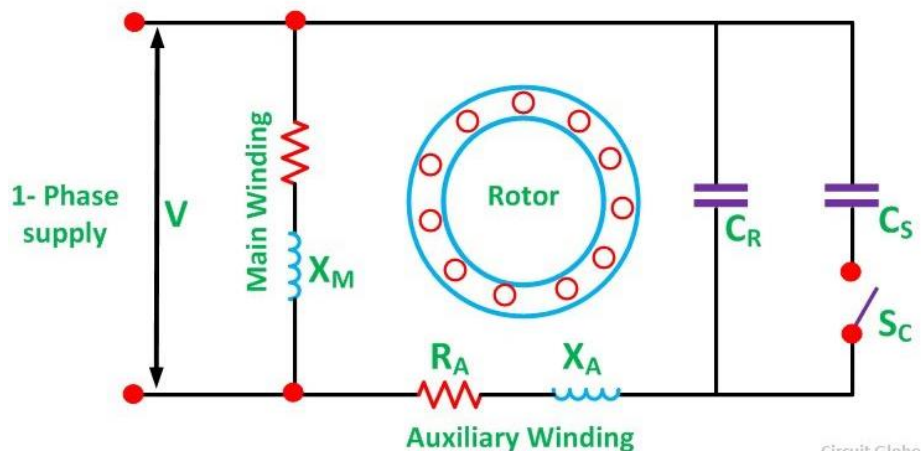
Circuit Globe

TYPES OF SINGLE PHASE INDUCTION MOTOR

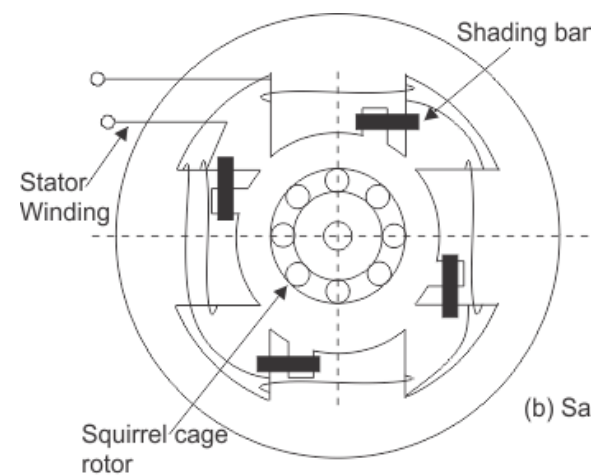


Circuit diagram of capacitor run motor

Capacitor Run IM

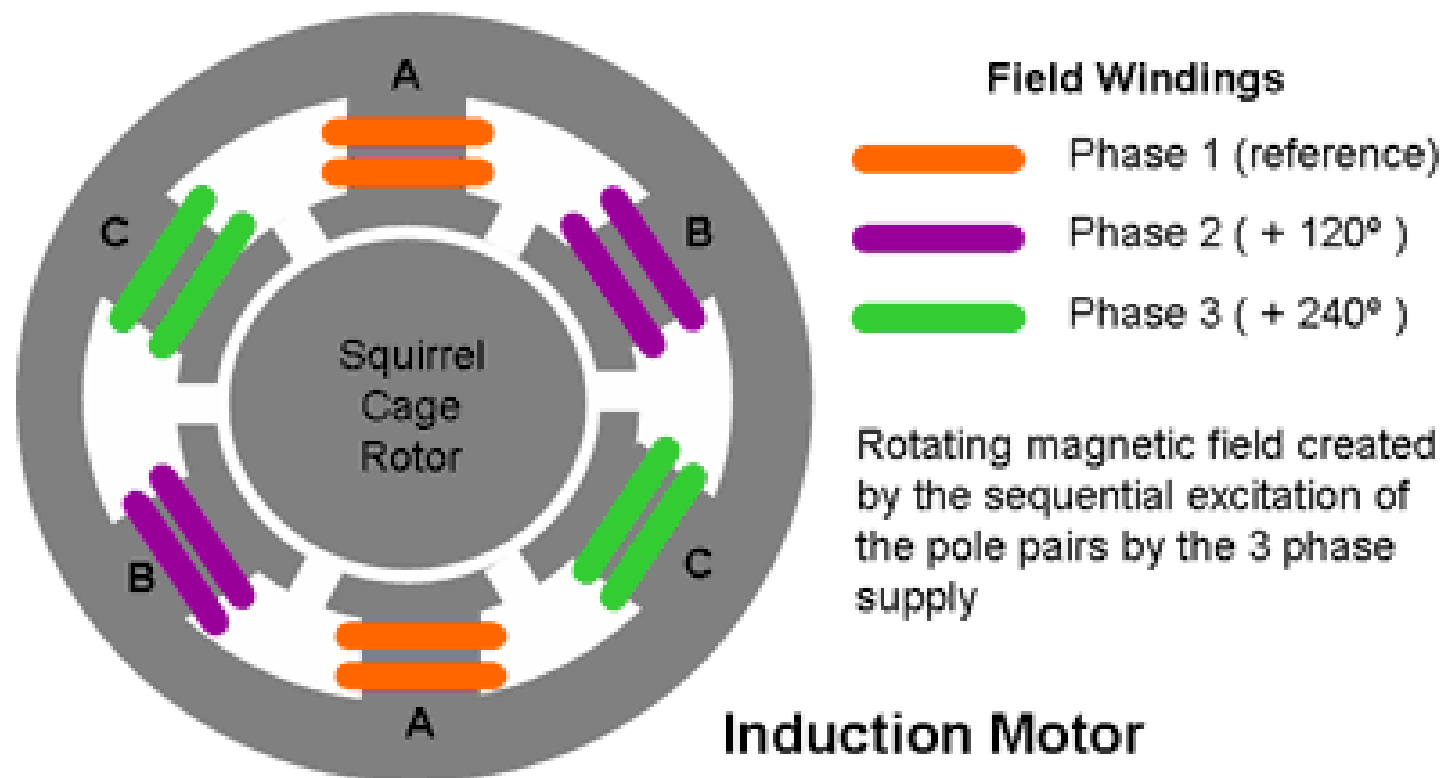


Capacitor Start and Capacitor Run IM

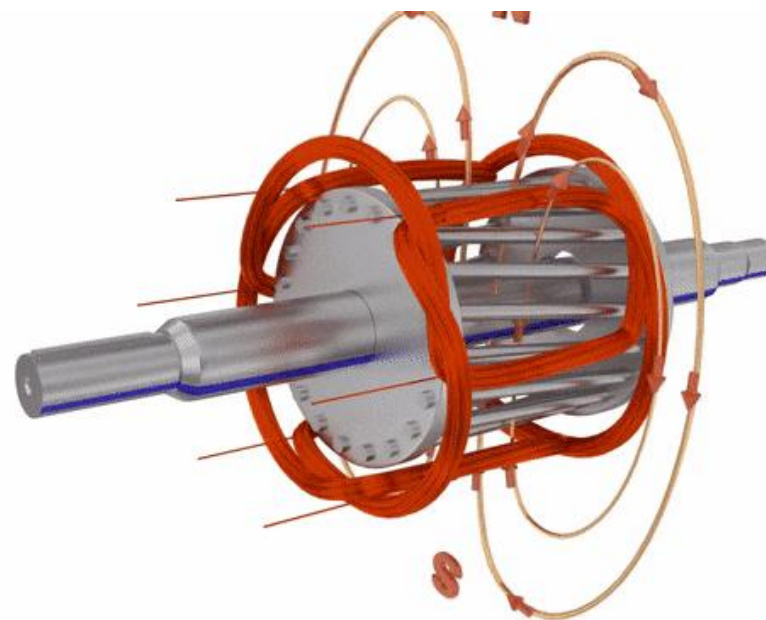


(a) 4-pole shaded pole construction

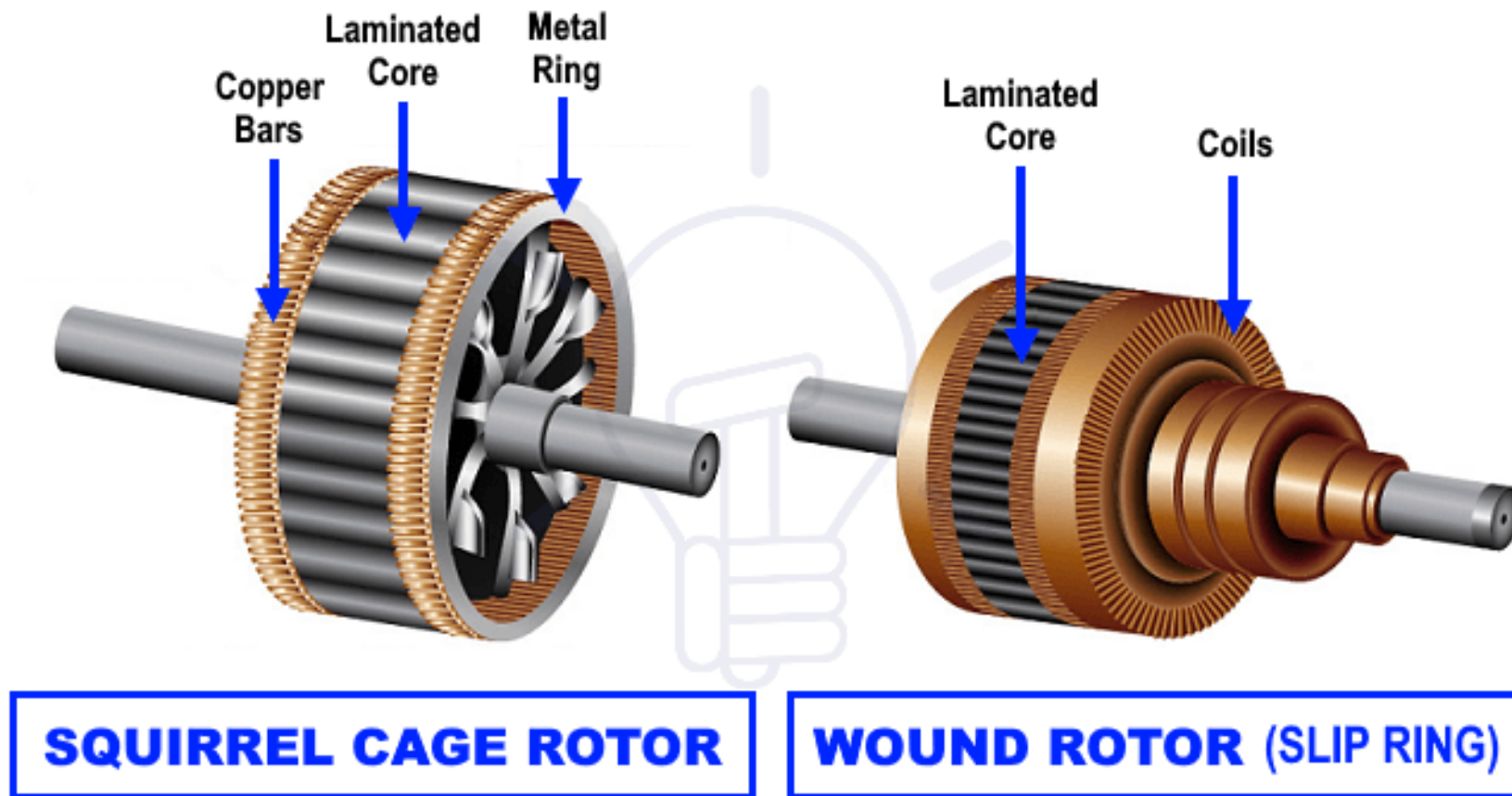
THREE PHASE INDUCTION MOTOR



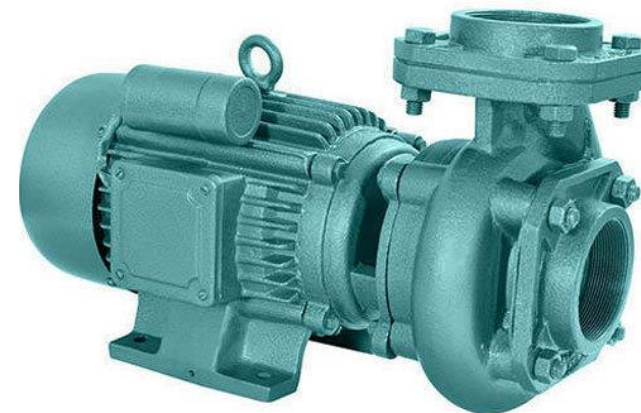
THREE PHASE INDUCTION MOTOR WORKING PRINCIPLE



TYPES OF 3 PHASE INDUCTION MOTOR



KIRCHHOFF'S LAW





REFERENCES

1. Bhattacharya. S.K, “Basic Electrical and Electronics Engineering”, Pearson Education , (2017)
2. Muthu Subramanian R, Salivahanan S,“ Basic Electrical and Electronics Engineering”, Tata McGraw Hill Publishers, (2009)
3. V.Mittle“ Basic Electrical Engineering”, Tata McGraw Hill Publishers, (2017)
4. Nagrath. I.J, “Electronics: Analog and Digital”, Prentice Hall India Pvt. Ltd., (2013)

THANK YOU