

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 ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME : 19EE01 BASIC ELECTRICAL AND ELECTRONICS ENGINEERING

I YEAR /I SEMESTER AI&DS

Unit 1 – Electrical Circuits and Measurements

AC & DC Circuits



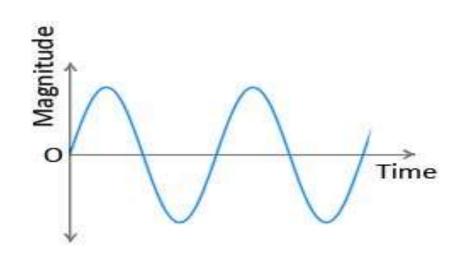
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AC CIRCUITS





Alternating Current

AC is a sinusoidal in nature which have frequency in its signal Frequency F = (1/T)

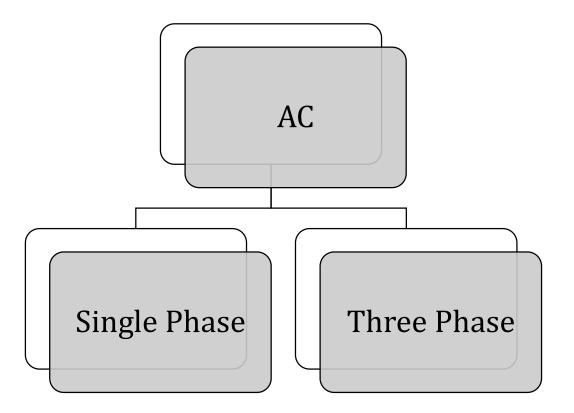
V- Voltage I- Current Z- Impedence







TYPES OF AC

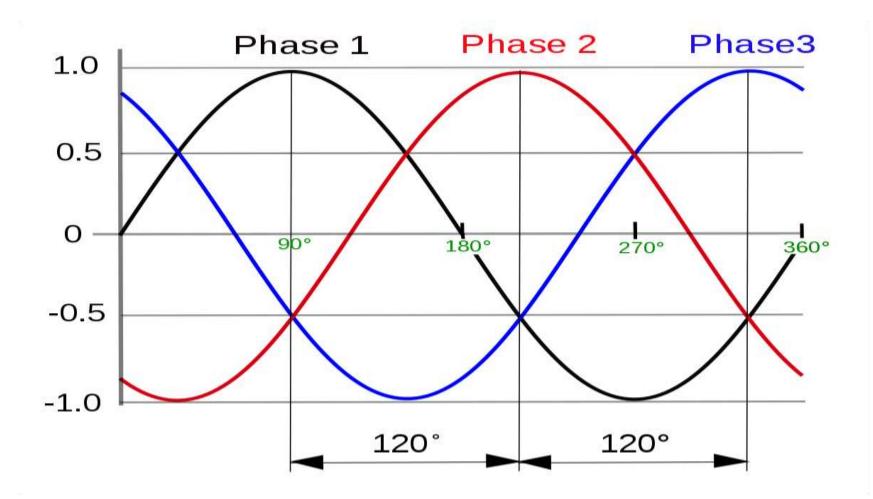








THREE PHASE SUPPLY





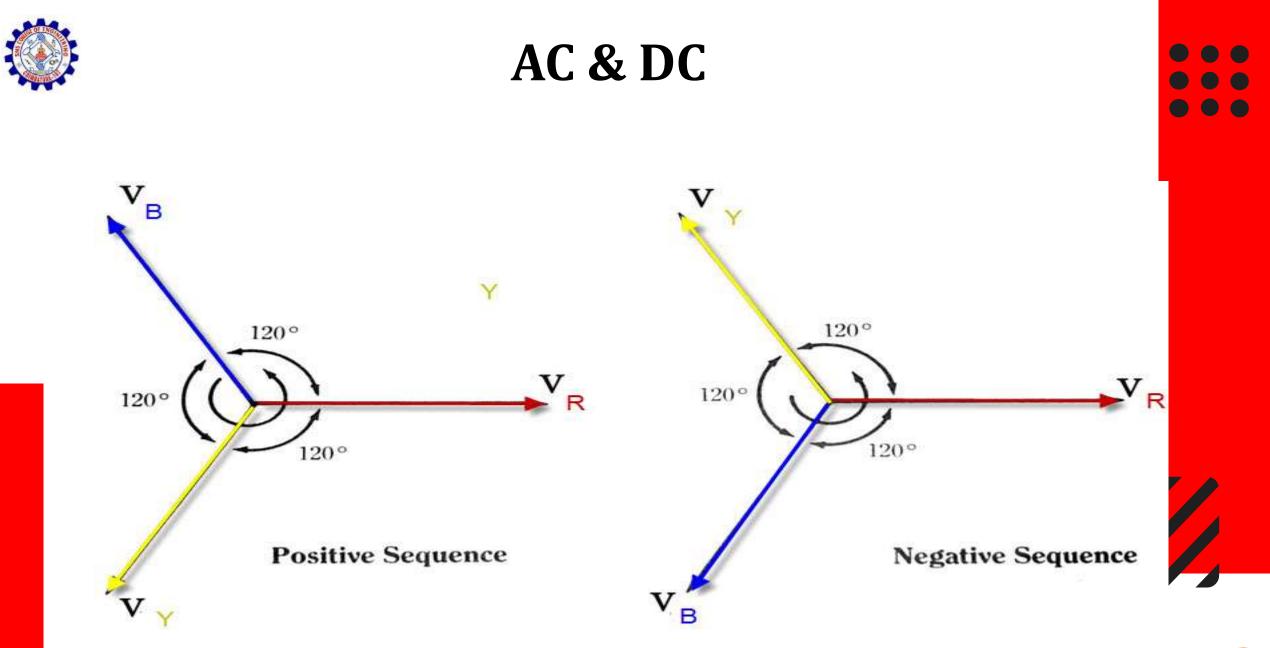


ADVANTAGES OF THREE PHASE SUPPLY

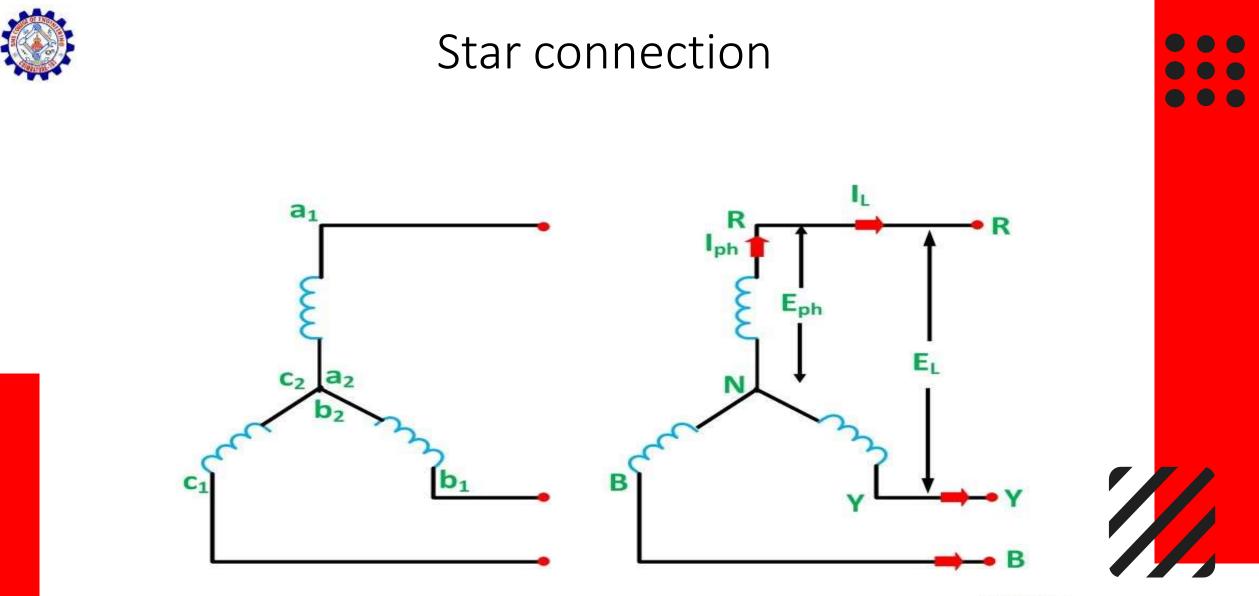
- More power
- Smaller in size with higher capacity
- Self starting
- P.f and efficiency
- More economical





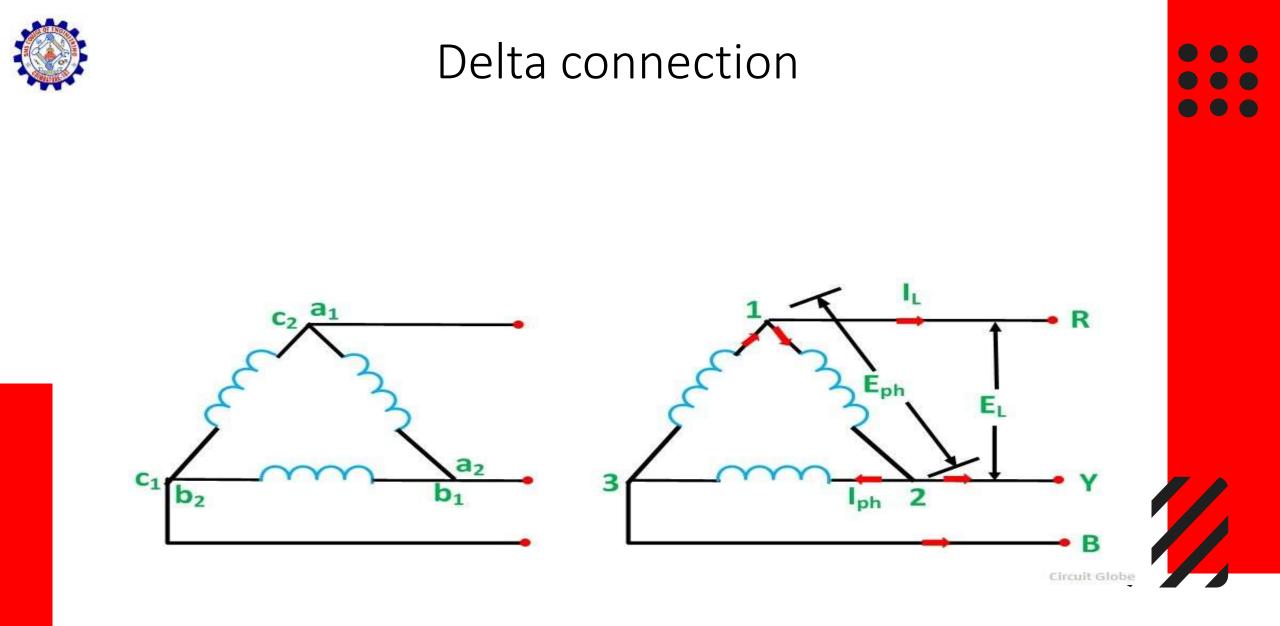






Circuit Globe











Direct Current

DC source is Direct current where the frequency is zero

I-Current V-Voltage R-Resistance







REFERENCES



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- 4. Nagrath. I.J, "Electronics: Analog and Digital", Prentice Hall India Pvt. Ltd., (2013)



THANK YOU

