

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 : BASIC ELECTRICAL AND ELECTRONICS ENGINEERING

Unit 1 – Electrical Circuits and Measurements

AC & DC Circuits



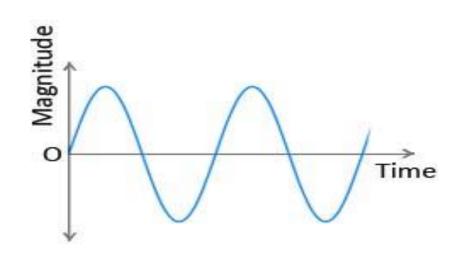
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AC CIRCUITS





Alternating Current

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

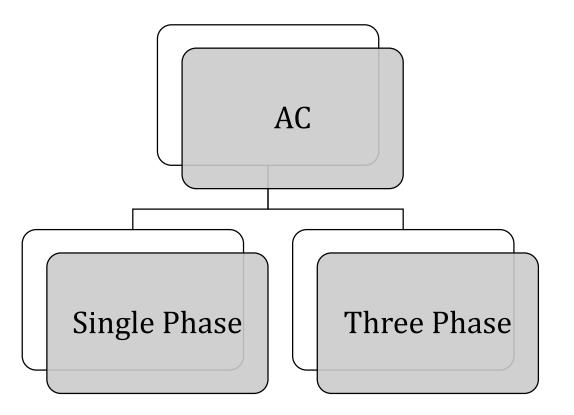
V- Voltage I- Current Z- Impedence







TYPES OF AC



AC & DC CIRCUITS/BEEE/EEE/SNSCE



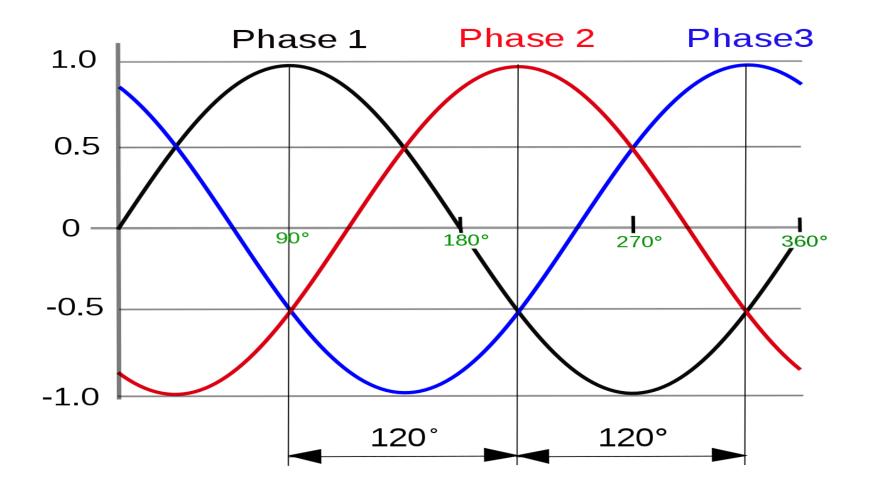


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THREE PHASE SUPPLY









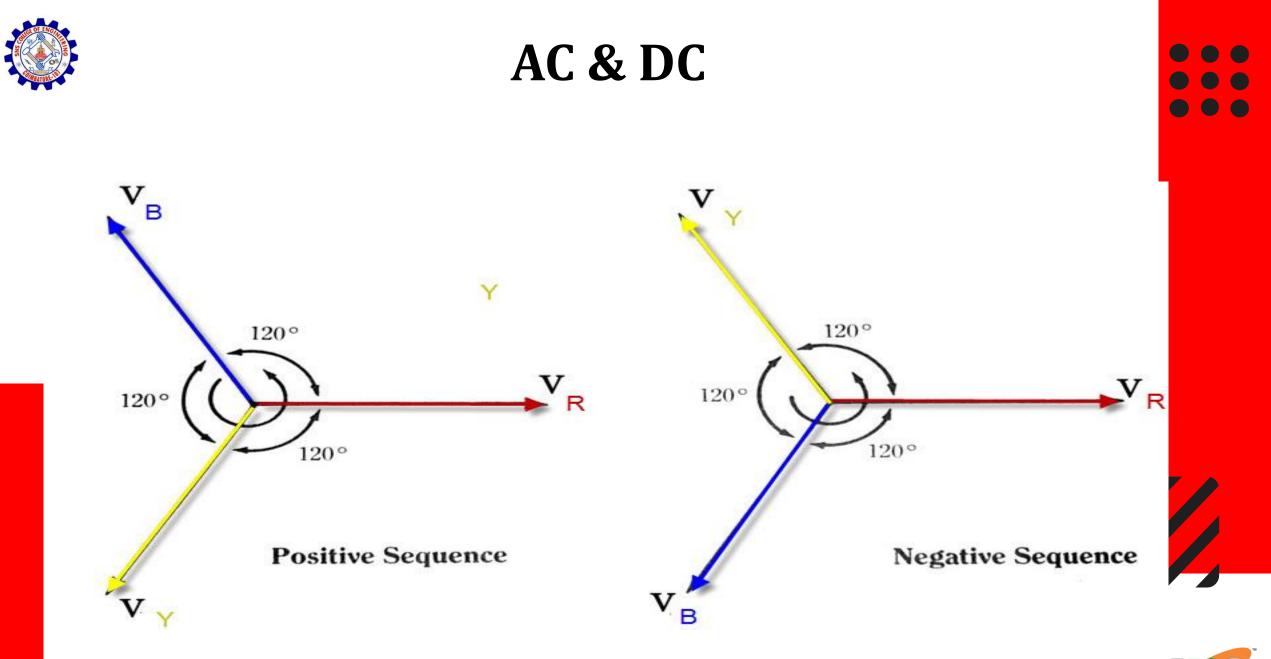


ADVANTAGES OF THREE PHASE SUPPLY

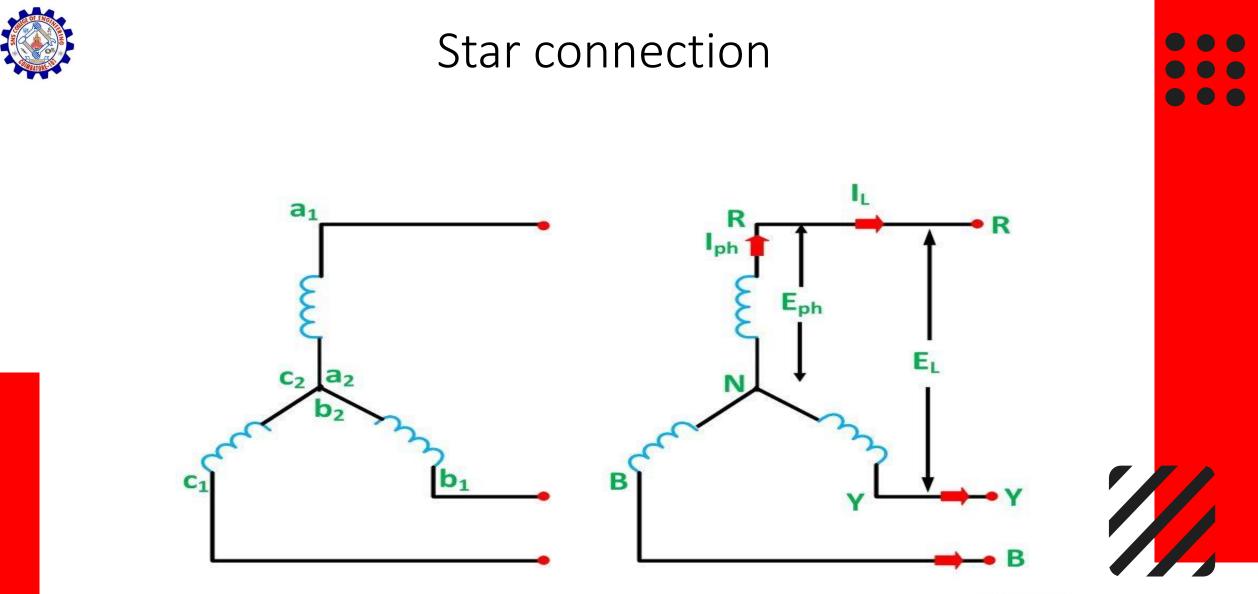
- More power
- Smaller in size with higher capacity
- Self starting
- P.f and efficiency
- More economical









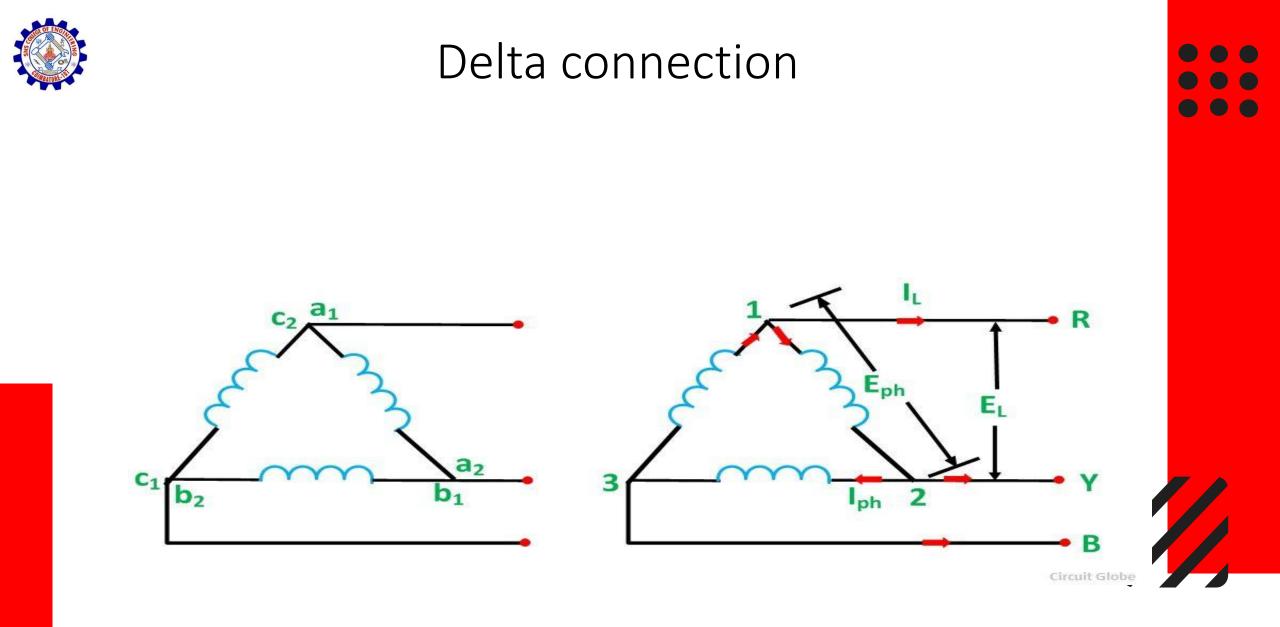


Circuit Globe



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AC & DC CIRCUITS/BEEE/EEE/SNSCE









Direct Current

DC source is Direct current where the frequency is zero

I-Current V-Voltage R-Resistance







REFERENCES

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- 2. Muthu Subramanian R, Salivahanan S," Basic Electrical and Electronics Engineering", Tata McGraw Hill Publishers, (2009)
- 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

