

3) More Economical: The 3 phase eco system is much smaller ? les expensive than single phase system because less material is required for given output power at given voltage:

phase system:

(1) Constant Power:

(2) Greater Output:

1) Self Start: Three phase system are self starting as they don't require any starting device. Single phase system requires starting device.



Less Voltage Dup: Due to less-voltage drop in 3-phase system, voltage regulation of 3-phase system is botter. (5)(6) Power Iransmitter Economics: The conductor material required to transmit given power at given voltage in single phase system which is not the case in three phase system. (7) Constant Torque: The tarque produced by 3-phase motor is more constant than that of single phase motor for same supply. (8) High Efficiency:
The 3-phase motor, are more efficient &
have higher power factor than single phase
motors of same capacity. MODULATION: The process of changing parameter of carrier signal (high frequency) i.e amplitude phase frequency in accordance with information signal in order to travel a longer distance is known as modulation.



* Types of Modulation:

(1) Amplitude Modulation (111):
when the amplitude of carrier signal changes
in accordance with information signal, it is
known as amplitude modulation.

(2) Frequency Modulation (FM):
when the frequency of coveries signal is
changed in arcoudance with information
signal, it is known as frequency modulation.

(3) Thase Modulation (pM)
When the phase of carrier signal changes in accordance with information signal it is known as phase modulation.

Demodulation:

The process of retriving original information signal from modulated signal is known as demodulation.