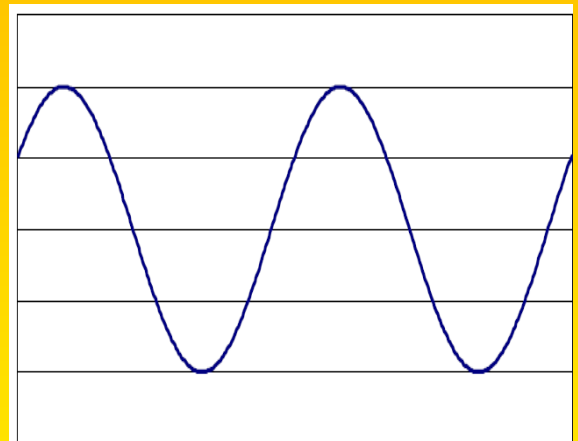


POWER QUALITY



REDUCE EB BILL

CAPACITORS

CAPACITOR BANKS

APFCS
(AUTOMATIC POWER FACTOR CORRECTION SYSTEM)

TSPFCS
(THRISTOR SWITCHED P.F CORRECTION SYSTEM)

HARMONIC FILTER SYSTEM



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Power Factor :

Power Factor is a measure of how efficiently electrical power is converted into useful work output. The ideal Power Factor is unity and below this level signifies extra power is needed to carry out the actual work. This extra power is nothing but Reactive Power, which is necessary to provide and maintain magnetizing field required by motors and other inductive loads to perform desired functions. This leads to extra burden on the electricity supply system and ultimately on the Consumers' EB Bill. Low P.F leads to the following :

- Higher Apparent Current.
- Power Factor Penalty.
- Non-availing P.F Incentives.
- Lesser Break-down time etc.

Automatic Power Factor Correction System :

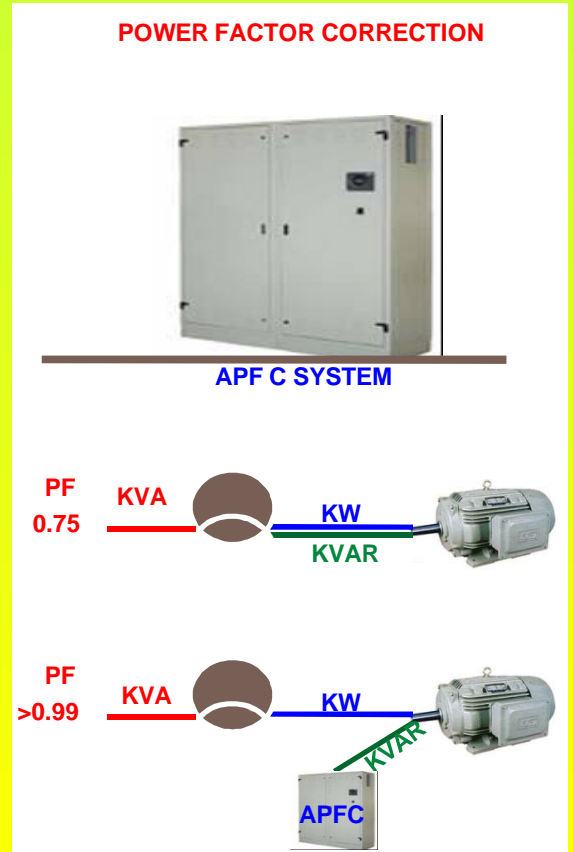
For continuously varying load pattern, the requirement of KVAR varies from instant to instant. For example the industrial motors are subjected to different loads based on the production capacity.

Hence, the loading on the motors varies from time to time. Automatic compensation of reactive power can only maintain healthy Power Factor under these conditions, which warrants Automatic Power Factor Correction System.

The Automatic Power Factor Correction System consists of Micro Processor based Relay which senses the requirement of KVAR and give signal to the Contactor to Switch ON & OFF the required Capacitor Circuitry. This way the Power Factor can be maintained in a healthy manner.

Benefits

- Reduced EB Bill - Maximized tariff benefits
- Improved efficiency through loss reduction
- Reduced Fuel consumption for DG
- Compliance to standards on Power Quality
- Enhanced equipment reliability by stress reduction.



POWER THE FUTURE

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