

BASIC POWER SYSTEMS



V = Volts = E

KVA = Kilo Voltamperes, apparent power as measured by product of (V) (A)

KW = Kilowatts, real consumed power

KVAR = Kilo Voltamps reactive, imaginary power

I = A = Amperes current flow

θ = Angle of power triangle $\cos \theta = P.F.$

$$\cos \theta = P.F. = \text{power factor} = \frac{\text{Watts}}{\text{Volts} \times \text{Amperes}} = \frac{KW}{KVA}$$

BASIC POWER EQUATIONS

$$KW = (\text{Volts}) (\text{Amperes}) (P.F.) / 1000 \text{ for } 1\phi$$

$$= (KV) (\text{Amperes}) (PF)$$

$$KW = (\text{Volts}) (\text{Amperes}) (P.F.) (\sqrt{3}) / 1000 \text{ for } 3\phi$$

$$= (KV) (\text{Amperes}) (PF) (\sqrt{3})$$

$$KVA = (\text{Volts}) (\text{Amperes}) / 1000 \text{ For } 1\phi$$

$$= (KV) (\text{Amperes}) (PF)$$

$$KVA = (\text{Volts}) (\text{Amperes}) (\sqrt{3}) / 1000 \text{ for } 3\phi$$

$$= (KV) (\text{Amperes}) (\sqrt{3})$$

I = Current Per Phase (Amperes) (A)

$$I = \frac{KVA}{KV} \text{ For } 1\phi, I = \frac{KVA}{KV \sqrt{3}} \text{ For } 3\phi$$

Normally, either KVA or current (I) amperes is given for loads to describe how much power is consumed.

Power factor = 1 for resistive loads such as Resistance Heaters, incandescent lights, stoves or other non-motorized equipment.

Power factor < 1 for all other inductive loads such as motors, transformers, reactors and capacitors.

$$KVAR = (KVA)(\sin \theta)$$

Basic Power Systems Fs Fed

Karin Nielsen-Saines



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