

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 $\cos \theta = P.F.$

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

BASIC POWER EQUATIONS

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

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

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

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

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

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

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

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

I = Current Per Phase (Amperes) (A)

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

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.

$$\text{KVAR} = (\text{KVA})(\sin \theta)$$

Basic Power Systems Fs Fed

PT Brinkman



Basic Power Systems Fs Fed:

Embracing the Tune of Appearance: An Emotional Symphony within **Basic Power Systems Fs Fed**

In a world taken by monitors and the ceaseless chatter of immediate communication, the melodic elegance and emotional symphony developed by the published word frequently fade in to the back ground, eclipsed by the persistent noise and interruptions that permeate our lives. But, located within the pages of **Basic Power Systems Fs Fed** an enchanting fictional value full of organic emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that captivating masterpiece conducts viewers on a psychological trip, well unraveling the hidden melodies and profound influence resonating within each cautiously crafted phrase. Within the depths of the moving assessment, we can examine the book is central harmonies, analyze their enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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