

# Basic Electrical Engineering Formulas And Equations

## Electrical Formulas

These are the Basic Electrical Formulas Related to Ohm's Law. Variables used in these formulas are as follows:

$V$  = Voltage in Volts

$I$  = Current in Amperes

$R$  = Resistance in Ohms

Power = In Watts

### Voltage Formulas

$$V = IR, \quad V = \sqrt{P/R}, \quad V = \sqrt{P \times R}$$

### Current Formulas

$$I = VR, \quad I = P/V, \quad I = \sqrt{P/R}$$

### Resistance Formulas

$$R = VI, \quad R = P/V^2, \quad R = P/I^2$$

### Power Formulas

$$P = VI, \quad P = V^2/R, \quad P = I^2 \times R$$

Following are several additional formulas, which are useful for calculating Current, Horsepower, kW, and kVA for both Single Phase & Three Phase AC Current.

HP = Horsepower

EFE = Efficiency Factor ( Use 0.9 when not mentioned)

PF = Power Factor ( Use 0.8 when not mentioned)

## AC = Alternating Current

### To Find:

#### Single-Phase

#### Three Phase

$$\text{Current, when Motor HP is known} = \frac{HP \times 746}{V \times EFE \times PF}$$

$$\text{HP} = \frac{V \times I \times PF}{746}$$

$$\text{Ampers, when kW is known} = \frac{kW \times 1000}{V \times PF \times 1.73}$$

$$kW = \frac{V \times I \times PF}{1.73}$$

$$\text{Current, when kVA is Known} = \frac{kVA \times 1000}{V \times 1.73}$$

$$kVA = \frac{V \times I}{1.73}$$

$$\text{Kilowatts (kW)} = \frac{V \times I \times PF}{1000}$$

$$kW = \frac{V \times I \times PF \times 1.73}{1000}$$

$$\text{kW Input, when Motor HP is Known} = \frac{HP \times 0.746}{EFE}$$

$$HP = \frac{HP \times 0.746}{EFE}$$

$$\text{Millivolt-Amperes (MVA)} = \frac{V \times I}{1000}$$

$$MVA = \frac{V \times I \times 1.73}{1000}$$

$$\text{Horsepower (HP)} = \frac{V \times I \times EFE \times PF}{746}$$

$$HP = \frac{V \times I \times EFE \times PF \times 1.73}{746}$$

## Useful Electrical Formulas

### To Obtain

#### Single Phase

#### Three Phase

### Kilowatts

$$\frac{V \times I \times PF}{1000}$$

$$\frac{1.732 \times V \times I \times PF}{1000}$$

### kVA

$$\frac{V \times I}{1000}$$

$$\frac{1.732 \times V \times I}{1000}$$

Horsepower required when generator kW unknown (if generator efficiency is unknown, use 0.93)

$$kW = \frac{0.746 \times \text{Efficiency (Generator)}}{0.746 \times \text{Efficiency (Generator)}}$$

$$kW = \frac{0.746 \times \text{Efficiency (Generator)}}{0.746 \times \text{Efficiency (Generator)}}$$

kW input when motor hp known (if motor efficiency is unknown, use 0.88 x hp)

$$HP = \frac{0.746 \times \text{Efficiency (Motor)}}{0.746 \times \text{Efficiency (Motor)}}$$

$$HP = \frac{0.746 \times \text{Efficiency (Motor)}}{0.746 \times \text{Efficiency (Motor)}}$$

Ampers when motor hp is known

$$HP = \frac{HP \times 0.746}{V \times PF \times \text{Efficiency}}$$

$$HP = \frac{HP \times 0.746}{V \times PF \times \text{Efficiency}}$$

Ampers when kW is known

$$kW = \frac{kW \times 1000}{V \times PF}$$

$$kW = \frac{kW \times 1000}{V \times PF}$$

Ampers when kW-A is known

$$kW-A = \frac{kW-A \times 1000}{V}$$

$$kW-A = \frac{kW-A \times 1000}{V}$$

# All Basic Electrical Engineering Formulas

**Michal Rosen-Zvi**

## All Basic Electrical Engineering Formulas:

**The Electrical Engineering Handbook** Wai Kai Chen, 2004-11-16 The Electrical Engineer's Handbook is an invaluable reference source for all practicing electrical engineers and students. Encompassing 79 chapters, this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students. This text will most likely be the engineer's first choice in looking for a solution. Extensive complete references to other sources are provided throughout. No other book has the breadth and depth of coverage available here. This is a must have for all practitioners and students. The Electrical Engineer's Handbook provides the most up to date information in Circuits and Networks, Electric Power Systems, Electronics, Computer Aided Design and Optimization, VLSI Systems, Signal Processing, Digital Systems, and Computer Engineering. Digital Communication and Communication Networks, Electromagnetics and Control, and Systems. About the Editor in Chief: Wai Kai Chen is Professor and Head Emeritus of the Department of Electrical Engineering and Computer Science at the University of Illinois at Chicago. He has extensive experience in education and industry and is very active professionally in the fields of circuits and systems. He was Editor in Chief of the IEEE Transactions on Circuits and Systems Series I and II, President of the IEEE Circuits and Systems Society, and is the Founding Editor and Editor in Chief of the Journal of Circuits, Systems, and Computers. He is the recipient of the Golden Jubilee Medal, the Education Award, and the Meritorious Service Award from the IEEE Circuits and Systems Society, and the Third Millennium Medal from the IEEE. Professor Chen is a fellow of the IEEE and the American Association for the Advancement of Science. 77 chapters encompass the entire field of electrical engineering. THOUSANDS of valuable figures, tables, formulas, and definitions. Extensive bibliographic references.

**Basic Electrical Engineering: Principles, Designs and Applications** Vibhav Kumar Sachan, Syed Akhtar Imam, 2024-11-18 Basic Electrical Engineering Principles, Designs and Applications has been widely utilized in recent years in electrical engineering, microprocessors, electrical drives, and power electronics research, among other fields. This book aims to cater to the needs of the undergraduate courses in the discipline of Electronics Communication Engineering, Electronics Instrumentation Engineering, Electrical Electronics Engineering, Instrumentation and Control Engineering, and postgraduate students specializing in Electronics Control Engineering. It will also serve as reference material for engineers employed in industry. The fundamental concepts and principles behind transformers, three phase circuits, and electrical generators and motors are explained in a simple, easy to understand manner. Each chapter contains a good number of short answers and of multiple choice questions with explanation, which makes the book quite useful for Indian Engineering Service (IES) Graduate Aptitude Test in Engineering (GATE), National Eligibility Test (NET), State Eligibility Test (SET), University Grants Commission (UGC), and other entrance examinations.

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