

Electrical Formulas

These are the Basic Electrical Formulas followed by Ohm's Law.

Variable used in these formulas are as follows:

V = Voltage in Volts

I = Current in Amperes

R = Resistance in Ohms

P = Power in Watts

VOLTAGE FORMULAS

$$V = I \times R, \quad V = P \div I, \quad V = \sqrt{P \times R}$$

Current Formulas

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

Resistance Formulas

$$R = V \div I, \quad R = P \div V^2, \quad R = P \div I^2$$

Power Formulas

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

Following are several additional formulas which are useful to calculate different electrical quantities such as, current, Horsepower, kW and kVA for both Single Phase and Three-Phase AC Circuits.

HP = Horsepower

EFE = Efficiency Factor (0.9 when not mentioned)

PF = Power factor (use 0.8 When not mentioned)

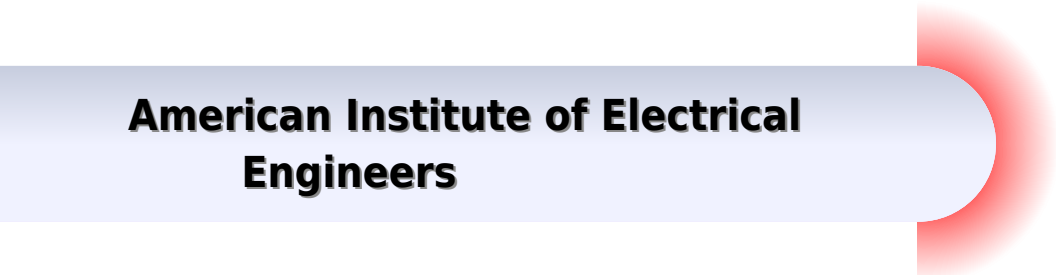
kW & kVA = kilowatt & kilo Volt Ampere

AC = Alternating Current

To Find	Single-Phase	Three-Phase
Current, when Motor HP is known	$\frac{HP \times 746}{V \times EFE \times PF}$	$\frac{HP \times 746}{V \times EFE \times PF \times 1.732}$
Amperes, When kW is know	$\frac{kW \times 1000}{V \times PF}$	$\frac{kW \times 1000}{V \times PF \times 1.732}$
Current, When kVA is known	$\frac{kVA \times 1000}{V}$	$\frac{kVA \times 1000}{V \times 1.732}$
kilowatts (kW)	$\frac{V \times I \times PF}{1000}$	$\frac{V \times I \times PF \times 1.732}{1000}$
kW input, when Motor HP is known	$\frac{HP \times 0.746}{EFE}$	$\frac{HP \times 0.746}{EFE}$
kilovolt-Amperes (kVA)	$\frac{V \times I}{1000}$	$\frac{V \times I \times 1.732}{1000}$
Horsepower (HP)	$\frac{V \times I \times EFE \times PF}{746}$	$\frac{V \times I \times EFE \times PF \times 1.732}{746}$

Useful Electrical Formulas List

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Table of Contents Useful Electrical Formulas List

1. Understanding the eBook Useful Electrical Formulas List
 - The Rise of Digital Reading Useful Electrical Formulas List
 - Advantages of eBooks Over Traditional Books
2. Identifying Useful Electrical Formulas List
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Useful Electrical Formulas List
 - User-Friendly Interface
4. Exploring eBook Recommendations from Useful Electrical Formulas List
 - Personalized Recommendations
 - Useful Electrical Formulas List User Reviews and Ratings
 - Useful Electrical Formulas List and Bestseller Lists
5. Accessing Useful Electrical Formulas List Free and Paid eBooks
 - Useful Electrical Formulas List Public Domain eBooks
 - Useful Electrical Formulas List eBook Subscription Services
 - Useful Electrical Formulas List Budget-Friendly Options

6. Navigating Useful Electrical Formulas List eBook Formats
 - ePub, PDF, MOBI, and More
 - Useful Electrical Formulas List Compatibility with Devices
 - Useful Electrical Formulas List Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Useful Electrical Formulas List
 - Highlighting and Note-Taking Useful Electrical Formulas List
 - Interactive Elements Useful Electrical Formulas List
8. Staying Engaged with Useful Electrical Formulas List
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Useful Electrical Formulas List
9. Balancing eBooks and Physical Books Useful Electrical Formulas List
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Useful Electrical Formulas List
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Useful Electrical Formulas List
 - Setting Reading Goals Useful Electrical Formulas List
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Useful Electrical Formulas List
 - Fact-Checking eBook Content of Useful Electrical Formulas List
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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