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=brR, V=P/I, V= \PxR

Current Formulas 1 = V/R , I=P/V , I= √P/R

Resistance Formulas R=VII. R=P/V², R=P/I²

Power Formulas
PeVxl. PeViR. PeIxR

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 = EfficiencyFactor (Use 0.9 when not mentioned) PF=Power Factor (Use 0.8 when not mentioned)

AC = Alternating Current			
To Find:	Single-Phase	Three Phase	
Current, when	HP×746	HP x 746	
Motor Hp is known	V×EFE×PF	V XEFE x PF x 1.73	
Ampers, when kW is knon	PA = 1000	KW x 1000 V x PF x 1.75	
Current, when XVA is Known	Civil	WA x 1000 V x 1.73	
klowats	Vx1xPF	Vx1xPFx1.73	
(kW)	1000	1000	
kW input, when	HP x 0.746	HP x 0.746	
Motor HP is Known	EFE	EFE	
kilovolt-Amperes	V×1	Vx Ix 1.75	
(kV/A)	1000	1000	
Horsecower	V×IIEFE×PF	V×hEFE×PF×1.73	
(HP)	746	746	

Useful Electrical Formulas			
To Obtain	Single Phase†	Three Phase†	
Klowatts	V x L x PF 1000	1,732 × V × L × PF 1000	
KV-A	V×L 1000	1.732 × V × L 1000	
Horsepower required when generator kW unknown (if generator efficiency is unknown, use 0.93)	0.746 x Efficiency (Generator)	kW 0.745 × Efficiency (Generator)	
kW input when motor hp known (if motor effi- ciency is unknown, use 0.85 x hp)	HP x 0.748 Efficiency (Motor)	HP x 0,746 Efficiency (Motor)	
Amperes when motor hp is known	HP x 0.746 V x PF x Efficiency	HP × 0.746 1.732 × V × PF × Efficiency	
Amperes when KW is known	WW x 1000 V x PF	NV × 1000 1.732 × V × PF	
Amperes when kW-A is known	W-A × 1000 V	kV-A × 1000 1.732 × V	

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Table of Contents Electrical Engineering Formulas Ppt

- 1. Understanding the eBook Electrical Engineering Formulas Ppt
 - The Rise of Digital Reading Electrical Engineering Formulas Ppt
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Electrical Engineering Formulas Ppt
 - 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 Electrical Engineering Formulas Ppt
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Electrical Engineering Formulas Ppt
 - Personalized Recommendations
 - Electrical Engineering Formulas Ppt User Reviews and Ratings

- Electrical Engineering Formulas Ppt and Bestseller Lists
- 5. Accessing Electrical Engineering Formulas Ppt Free and Paid eBooks
 - Electrical Engineering Formulas Ppt Public Domain eBooks
 - Electrical Engineering Formulas Ppt eBook Subscription Services
 - Electrical Engineering Formulas Ppt Budget-Friendly Options
- 6. Navigating Electrical Engineering Formulas Ppt eBook Formats
 - o ePub, PDF, MOBI, and More
 - Electrical Engineering Formulas Ppt Compatibility with Devices
 - Electrical Engineering Formulas Ppt Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electrical Engineering Formulas Ppt
 - Highlighting and Note-Taking Electrical Engineering Formulas Ppt
 - Interactive Elements Electrical Engineering Formulas Ppt
- 8. Staying Engaged with Electrical Engineering Formulas Ppt
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrical Engineering Formulas Ppt
- 9. Balancing eBooks and Physical Books Electrical Engineering Formulas Ppt
 - \circ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrical Engineering Formulas Ppt
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electrical Engineering Formulas Ppt
 - Setting Reading Goals Electrical Engineering Formulas Ppt
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electrical Engineering Formulas Ppt
 - $\circ\,$ Fact-Checking eBook Content of Electrical Engineering Formulas Ppt
 - 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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