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	

All Basic Electrical Engineering Formulas

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BASIC ELECTRICAL ENGINEERING SURYAMANI MISHRA, Electrical engineering plays a significant role in our everyday lives affecting numerous technologies and systems Key Areas of Electrical Engineering 1 Power Systems This area deals with the generation transmission and distribution of electricity Engineers in this field work on ensuring reliable power supply and the integration of renewable energy sources like solar and wind 2 Electronics This involves the study and design of electronic circuits and devices which can include everything from semiconductors to integrated circuits It has applications in consumer electronics telecommunications and more 3 Control Systems This area focuses on designing systems that maintain desired outputs despite changes in external conditions Applications range from industrial automation to robotics and aerospace 4 Telecommunications This subfield involves the transmission of information over distances for communication purposes It encompasses everything from mobile phone networks to satellite communication 5 Signal Processing This involves analysing and manipulating signals predominantly electrical signals to improve transmission and reception quality It's essential in audio video and data communications 6 Instrumentation This area focuses on the design of devices and systems that measure physical quantities like temperature pressure or flow and convert these measurements into signals for monitoring and control Basic Electrical Engineering Mehta V.K. & Mehta Rohit, 2008 For close to 30 years Basic Electrical Engineering has been the go to text for students of Electrical Engineering Emphasis on concepts and clear mathematical derivations simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject Divided into 17 chapters the book covers all the major topics such as DC Circuits Units of Work Power and Energy Magnetic Circuits fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand A Textbook of Electrical Technology - Volume I (Basic Electrical Engineering) BL Theraja, 2005 The primary objective of vol I of A Text Book of Electrical Technology is to provied a comprehensive treatment of topics in Basic Electrical Engineering both for electrical aswell as nonelectrical students pursuing their studies in civil mechnacial mining texttile chemical industrial nviromental aerospace electronicand computer engineering both at the Degree and diplomalevel Based on the suggestions received from our esteemed readers both from India and abroad the scope of the book hasbeen enlarged according to their requirements Almost half the solved examples have been deleted and replaced by latest examination papers set upto 1994 in different engineering collage and technical institutions in India and abroad 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

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