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## **Basic Electrical Engineering Formulas**

Electrical Current Formulas  $I = P / (V \times \cos\theta)$   
 $I = (V/Z)$

## **Basic Electrical Engineering Formulas and Equations**

The most common used electrical formulas - Ohms Law and combinations.

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Electrical Motor Efficiency.  $\mu = 746 \text{ P}_{hp} / \text{P}_{input\_w}$  (6) where.  $\mu$  = efficiency.  $\text{P}_{hp}$  = output horsepower (hp)  $\text{P}_{input\_w}$  = input electrical power (watts) ...

Electrical Motor - Power. Electrical Motor - Amps.

## **Electrical Formulas - Engineering Toolbox**

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Conductance  
Coulomb  
Current  
Current in AC circuits [Single phase]  
Current in AC circuits ...

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Kirchhoff's Current Law (KCL) The sum of electric currents which flow into any junction in an electric circuit is equal to the sum of currents which flow out

Conservation of electric charge

Kirchhoff's Voltage Law (KVL) The sum of



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the electrical voltages around a closed circuit must be zero Conservation of energy

## **Electrical Engineering Formulas - SMPS**

All Electrical Engineering Formulas List  
Cable Length from Sag, Span. Spring  
Resonant Frequency. Solenoid Coil

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Electromagnetic Force. Magnetic constant =  $4 \times \pi \times 10^{-7}$  . Capacitor Energy (E) and RC Time Constant.  $E = (V^2 \times C) / 2$  R = Load Resistance (Ohms). Physical Properties of Coil / ...

## List of All Electrical Engineering Formulas

Basic Electrical Engineering Formulas .

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Basic Electrical Engineering Formulas. It has been posted in separate post with explanation here. Ohm's Law, Kirchhoff's Law, & Coulomb's Law .

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Two Phase AC Power Three Phase AC Power DC Power Power Factor Torque to Horsepower (hp) Horsepower (hp) to Torque Equivalent Resistance - Series & Parallel Circuit Equivalent Capacitance - Series & Parallel Circuit Equivalent ...

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$$G = \frac{1}{R} \text{ mho (mho)}$$

$$\text{Impedance. } Z^2 = R^2 + (X_L - X_C)^2.$$

$$\text{ohm } (\omega) \text{ Resonant Frequency. } f =$$

$$\frac{1}{2\pi\sqrt{LC}} \text{ Hertz (Hz)}$$

Electrical Formulas helps us to calculate the parameters related to electricals in any electrical components.

## **Electrical Formulas -**

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## **Explanation, Formula and Solved Examples**

Figure 1-2. (a) 75A (b) 80A (c) 100A (d) 125A Answer: (c) 100A. Step 1: Convert 125 percent to a decimal: 1.25 Step 2: Multiply the value of the 80A load by  $1.25 = 100A$ . c Example 2. Question: The maximum continuous load on an overcurrent device is limited to 80

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percent of the device rating.

## **INTRODUCTION TO UNIT 1—ELECTRICIAN'S MATH AND BASIC**

...

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Fort Worth, TX 76102 Rad.e 'haek . Title:  
Engineer's Mini-Notebook - Formulas,  
tables and Basic Circuits Author: X  
Subject: Electronics

## **Engineer's Mini-Notebook - Formulas, tables and Basic Circuits**

Formula True Power Power Factor =  
Apparent Power getcalc Formula DC



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Power: Horsepower  $\text{Volts} \times \text{Amperes} \times \text{Eff}$   
 $745.7 \text{ Watts} = \text{Volts} \times \text{Amperes}$   
 $\text{Volts} \times \text{Amperes} \text{ Kilowatts} = 1000$   
 $\text{Volts} \times \text{Amperes} \times \text{hours} \text{ Kilowatt-hours} = 1000$   
 $\text{Eff}$  Efficiency `getcalc`

## **Electrical Engineering Formulas** **Ohms Law - [getcalc.com](http://getcalc.com)**

Volts (E):  $\text{Volts} = \text{square root of } (\text{watts} \times$

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ohms) Volts = watts / amperes. Volts = amperes x ohms. Ohms (R): Ohms = volts / amperes. Ohms = volts<sup>2</sup> / watts. Ohms = watts / amperes<sup>2</sup>. Watts (W):

## **Basic Electrical Formulas | Flodraulic Group**

Electrical Engineering Formulas.  
Electromagnetism. The theoretical

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foundation for EE is electromagnetism. The theory of classical electromagnetism is based on Maxwell's equations, which provide a unified description of the behavior of electric and magnetic fields as well as their interactions with matter.

## **Electrical Engineering Formulas**

This spreadsheet calculates the most

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common and basic electrical engineering formulas. These are: Single phase power in kVA. Three-phase power in kVA. Single phase current in Amps. Three-phase current in Amps. Dissipated power in Watts. Inductance in Henries. Impedance in Ohms.

## **Electrical Engineering General**

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## **Formulas**

Today Electrical Engineering XYZ shares free formula sheet on basic electrical engineering concepts and topics. The formula sheet contains different formulas on 13 DC and AC topics and is important for all Engineering students who are doing their engineering, and for those who are appearing in various

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competitive tests.

## **Download Free Basic Electrical Engineering Formula Sheet**

This current varying in parallel circuits brought about Kirchoff's next big law in basic electrical engineering, Kirchoff's Current Law (KCL). This law basically states that current into a node will equal

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the current out of the node. In other words, the net current in a node is zero or  $0 = I(\text{in}) - I(\text{out})$ .

## **Basic Electrical Theory | Ohms Law, Current, Circuits & More**

Electronics is more than just schematics and circuits. By using various components, such as resistors and

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capacitors, electronics allows you to bend electric current to your will to create an infinite variety of gizmos and gadgets. In exploring electronics, use this handy reference for working with Ohm's, Joule's, and Kirchhoff's Laws; making important calculations; determining [...]



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## **Electronics For Dummies Cheat Sheet - dummies**

The Formula Wheel of Electrical Engineering V comes from "voltage" and E from "electromotive force (emf)". E means also energy, so we choose V.  
Energy = voltage  $\times$  charge.

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