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Three Phase Calculations. Using either of current, active power, apparent power or reactive power as inputs other parameters can be obtained for a three phase system where line to line voltage (VLL) and power factor are known. Power Factor Correction. Obtain the required power factor compensation in kVAr if active power and the actual and desired power factors are known.

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Energy Consumed per Year = ((p × h) / 1000) × 365 Electricity Cost per Day = ((p × h) / 1000) × r Electricity Cost per Month = (((p × h) / 1000) × 30) × r Electricity Cost per Year = (((p × h) / 1000) × 365) × r Where, p = Power Consumption h = Hours of Use per Day r = Electricity Cost per Unit Related Calculator:

### List of All Electrical Engineering Formulas

Electrical Motors Electrical Motor Efficiency.  $\mu = 746 P_{hp} / P_{input\_w}$  (6) where.  $\mu$  = efficiency.  $P_{hp}$  = output horsepower (hp)  $P_{input\_w}$  = input electrical power (watts) or alternatively.  $\mu = 746 P_{hp} / (1.732 V I PF)$  (6b) Electrical Motor - Power.  $P_{3-phase} = (U I PF 1.732) / 1,000$  (7) where

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### Design Calculations for Electrical Design

Handbook of Electrical Engineering Handbook of Electrical Engineering: For Practitioners in the Oil, Gas and Petrochemical Industry. 2003 John Wiley & Sons, Ltd ISBN: 0-471-49631-6

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H. Wayne Beaty is the former managing editor of Electric Light and Power and is editor of McGraw-Hill's Standard Handbook of Electrical Engineering, Sixteenth Edition, co-editor of McGraw-Hill's Handbook of Electric Power Calculations, and Electric Power Systems Quality, Third Edition. Beaty is a Senior Member of IEEE. Donald G. Fink was director emeritus of the Institute of Electrical and ...

### **Standard Handbook for Electrical Engineers Sixteenth ...**

the corresponding electrical load calculations. 1. Electrical Riser Diagram : A diagram as shown in Figure 5 is an important element of the electrical power plan. It usually depicts the power source and its distribution on the outside wall of the building. In Figure 5, the three phase electric power of "277/480V" comes in either

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The book fully describes each problem, includes numbered calculation procedures, provides worked out problems, and offers related calculations in most instances. This is an essential on-the-job manual as well as a handy reference for engineering licensing exam preparation.

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