

Quantity	DC	Single Phase AC	Three Phase AC
Current (I) Amp	<ul style="list-style-type: none"> <li><math>I = V/R</math></li> <li><math>I = P/V</math></li> <li><math>I = \sqrt{P/R}</math></li> </ul>	<ul style="list-style-type: none"> <li><math>I = P / (V \times \text{Cos}\theta)</math></li> <li><math>I = (V/Z)</math></li> </ul>	<ul style="list-style-type: none"> <li><math>I = P / \sqrt{3} \times V \times \text{Cos}\theta</math></li> </ul>
Voltage (V) Volts	<ul style="list-style-type: none"> <li><math>V = I \times R</math></li> <li><math>V = P / I</math></li> <li><math>V = \sqrt{(P \times R)}</math></li> </ul>	<ul style="list-style-type: none"> <li><math>V = P/(I \times \text{Cos}\theta)</math></li> <li><math>V = I \times Z</math></li> </ul>	<ul style="list-style-type: none"> <li><math>V_L = \sqrt{3} V_{PH}</math> or <math>V_L = \sqrt{3} E_{PH}</math></li> <li><math>V_L = V_{PH}</math></li> </ul>
Power (P) Watts	<ul style="list-style-type: none"> <li><math>P = IV</math></li> <li><math>P = I^2 R</math></li> <li><math>P = V^2/R</math></li> </ul>	<ul style="list-style-type: none"> <li><math>P = V \times I \times \text{Cos}\theta</math></li> <li><math>P = I^2 \times R \times \text{Cos}\theta</math></li> <li><math>P = (V^2/R) \times \text{Cos}\theta</math></li> </ul>	<ul style="list-style-type: none"> <li><math>P = \sqrt{3} V_L I_L \text{Cos}\Phi</math></li> <li><math>P = 3 V_{PH} I_{PH} \text{Cos}\Phi</math></li> </ul>
Resistance (R) $\Omega$	<ul style="list-style-type: none"> <li><math>R = V/I</math></li> <li><math>R = P/I^2</math></li> <li><math>R = V^2/P</math></li> </ul>	<ul style="list-style-type: none"> <li><math>Z = \sqrt{(R^2 + X_L^2)}</math></li> <li><math>Z = \sqrt{(R^2 + X_C^2)}</math></li> <li><math>Z = \sqrt{(R^2 + (X_L - X_C)^2)}</math></li> </ul>	



# Basic Equations Of Engineering

**K Morrison**



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