Quantity	DC	Single Phase AC	Three Phase AC
Current (I) Amp	• I = V/R • I = P/V • I = √P/R	• I = P / (V x Cos8) • I = (V/Z)	• I = P / √3 x V x Cosθ
Voltage (V) Volts	• V = I x R • V = P / I • V = √ (P x R)	• V = P/(I x Cos0) • V = I x Z	<ul> <li>V<sub>L</sub> = √3 V<sub>PH</sub> or V<sub>L</sub> = √3 E<sub>PH</sub></li> <li>V<sub>L</sub> = V<sub>PH</sub></li> </ul>
Power (P) Watts	• P = IV • P = I <sup>2</sup> R • P = V <sup>2</sup> /R	- P = V x I x Cosθ - P = I <sup>2</sup> x R x Cosθ - P = (V <sup>2</sup> /R) x Cosθ	· P = √3 V <sub>L</sub> I <sub>L</sub> CosΦ · P ≡ 3 V <sub>Ph</sub> I <sub>Ph</sub> CosΦ
Resistance (R) Ω	• R = V/I • R = P/I <sup>2</sup> • R = V <sup>2</sup> /P	. $Z = \sqrt{(R^2 + X_L^2)}$ . $Z = \sqrt{(R^2 + X_C^2)}$ . $Z = \sqrt{(R^2 + (X_L - X_C)^2)}$ . $Z = \sqrt{(R^2 + (X_L - X_C)^2)}$ . WWW.ELECTRICALTECHNOLOGY.ORG	

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