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~~$\dot{U} = Z \times \dot{I}$ , where  $\dot{U}$  and  $\dot{I}$  - voltage and current phasors,  $Z$  - complex impedance (for resistive circuits:~~

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$u = R \times i$ ) Lorentz force law, Faraday's law and Drude model. 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.

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Electrical Theory Formulas

Electrical Motor - Power.  $P_{3\text{-phase}} = (U I PF 1.732) / 1,000$  (7) where.  $P_{3\text{-phase}}$  = electrical power 3-phase motor (kW) PF = power factor electrical motor.

Electrical Motor - Amps.  $I_{3\text{-phase}} = (746 P_{hp}) / (1.732 V \mu PF)$  (8) where.  $I_{3\text{-phase}}$  = electrical current 3-phase motor (amps) PF = power factor electrical motor

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The AC wall voltage is 120V (rms). But the actual peak value is  $\sqrt{2} * 120 = 169.7V$ . This doubled is 339V which is very close to the values you are seeing. I would expect your 120V rms wall voltage is really more like 124V rms. This would give an actual peak voltage of  $124 * \sqrt{2} = 175V$ .

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