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complex impedance (for resistive  
circuits:  $u = R \times i$ ) Lorentz force  
law, Faraday's law and Drude  
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(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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power 3-phase motor (kW) PF =  
power factor electrical motor.

Electrical Motor - Amps. I 3-phase  
=  $(746 P hp) / (1.732 V \mu PF)$

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(8) where. I 3-phase = electrical  
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capacitance in farads, f -

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The AC wall voltage is 120V  
(rms). But the actual peak value is

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$\sqrt{2} * 120 = 169.7V$ . 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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