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Electrical Theory Formulas

Electrical Motor - Power, P 3-phase = $(U \times I \times PF \times 1.732) / 1,000$ (7) where, P 3-phase = electrical power 3-phase motor (kW) PF = power factor electrical motor. Electrical Motor - Amps, I 3-phase = $(746 \times P \text{ hp}) / (1.732 \times V \times PF)$ (8) where, I 3-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 $\sqrt{2} \times 120 = 169.7V$. 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 $124 \times \sqrt{2} = 175V$.

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