

**Chapter 11, Problem 91.**

The nameplate of an electric motor has the following information:

Line voltage: 220 V rms

Line current: 15 A rms

Line frequency: 60 Hz

Power: 2700 W

Determine the power factor (lagging) of the motor. Find the value of the capacitance  $C$  that must be connected across the motor to raise the pf to unity.