CMGT 235 – Electrical and Mechanical Systems Homework #28 – Electrical Systems Due: 12/1/2022 Points: 20 [Extra Credit] Name: ______

SHOW ALL CALCULATIONS FOR FULL CREDIT

- 1. A 7,500 W electric garage heater is running on 240 VAC single phase.
 - A. Calculate the continuous full load amperage (FLA).

B. Determine the Over Current Protection (OCP) circuit breaker required.

C. Determine the size copper THHN 75° C conductor required.

D. If the maximum voltage drop for the unit is limited to 3%, determine the longest length the conductors can be.