

Cutler Hammer Heaters.

H 1066 .190 Ohms

H 1027 .152

H 1028 .104 ???? (my copy is jacked up.)

H 1029 .114

H 1030 .0987

H 1031 .0830

If you need to measure the resistor you have. (Don't trust your meter, the scale is too low.)

Remove the Signal Resistor you have in the starter. Hook it in series with the oil heater.

Turn on the oil heater and measure the voltage drop across the heater and check the amp flow.

$E = I \times R$ If the voltage drop across the resistor was 1.5 volts and the current flow was 12.6 amps then....

$R = E / I$ $1.5V / 12.6A = .119$ Ohms

The signal voltage from the starter should = 0.5 +/- 0.1 volts AC at full load.

Sample: with the CT on a Line Lead

RLA = 300

CT Ratio = 300/5

Secondary current = 5 amps @ full load.

 $E = IR$ $0.5v = 5 \text{ amps} \times 0.1 \text{ ohms}$ (use a H 1028 heater.)

Sample with the CT on a Phase Lead

RLA = 300

CT Ratio = 200/5

Secondary current = 300 amps x .57 Phase current x 5/200 the CT Ratio = 4.275 amps @ full load.

 $E = IR$ $0.5v = 4.275 \text{ amps} \times 0.1169 \text{ ohms}$ (use a H 1029 Heater)

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