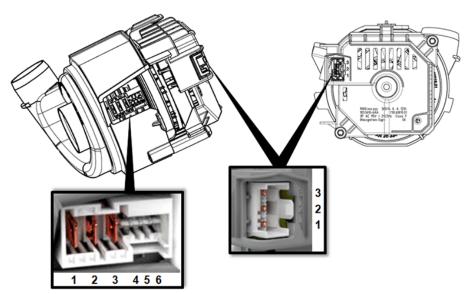
5.4 Heat pump terminal measurements

There are two connectors, 6-pin heater / NTC's and 3-pin motor.

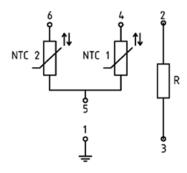


Graphic 50:6-pin heater / NTC's and 3-pin motor terminals

The 6-pin connector on the side of the heat pump connects to the heat pump heater, heater NTC's and ground (terminals 1 - 6).

To check the 1200 W heater, measure the resistance between terminals 2-3. If the resistance = ∞ , the heater has failed and the heat pump must be replaced.

Heater and NTC resistances as follows:



Graphic 51:Heater and NTC's wiring diagram

Heater 2 – 3: $\sim 8.9 \, \text{O} \, (@ 77 \, ^{\circ}\text{F})$

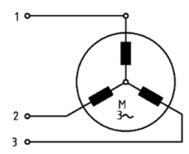
NTC 4 - 5: ~ 10 k# (@ 77 °F)

NTC 5 - 6: ~ 10 k# (@ 77 °F)

NTC 4 - 6: ~ 20 k# (@ 77 °F)

The 3-pin connector on the end of the heat pump connects to the 3-pole BLDC motor (terminals 1-3). The power module controls motor speed, starting and stopping.

Motor resistances as follows:



Graphic 52:Heat pump motor wiring diagram

Motor 1 – 2: \sim 14.7 Ω (@ 68 °F)

Motor 2 – 3: \sim 14.7 Ω (@ 68 °F)

Motor 3 - 1: $\sim 14.7 \Omega$ (@ 68 °F)