



Kencoil Recommended Form Wound Coil Test Procedures

Tested after coils are installed and under wedge

After the coils are installed, first Megger test the coil set with the coils connected in parallel at a Megger test voltage near the rated name plate line voltage (table following). If the permanent connections have not been made wrap a bare test wire to each coil connection.

Name plate voltage rating	Megger Test Voltage
480	500
2,300	2,500
4,160	5,000
6,900	5,000

The meg-ohms must measure 200MOhms or greater. **Do not perform DC Hi-pot test if the Megger reading is less than 200MOhms.** If the Megger reading is less than 200MOhms it is recommended that the wound stator be oven baked at 300 degrees Fahrenheit to dry out moisture, then re-Megger the coils. If Megger reading is still below 200MOhms after drying *investigate and find grounded coil before Hi-pot testing.*

After a Megger reading of 200MOhms or greater is verified next DC Hi-pot test and then surge test.

DC Hi-Pot Test Voltages		
	Prior to Varnish Treatment	Post Varnish Treatment
VPI Coils	Rated voltage	$(\text{Twice rated voltage} + 1,000) * 1.7$
Dip & Bake & Omni-Seal Coils	$(\text{Twice rated voltage} + 1,000) * 1.6$	$(\text{Twice rated voltage} + 1,000) * 1.7$

Surge Test Voltages		
	Prior to Varnish Treatment	Post Varnish Treatment
VPI Coils	$1.63 * \text{rated voltage} * .60$	$1.63 * \text{rated voltage}$
Dip & Bake & Omni-Seal Coils	$1.63 * \text{rated voltage}$	$1.63 * \text{rated voltage}$