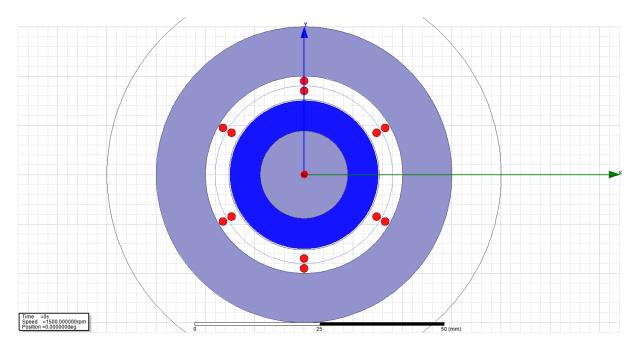
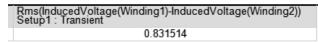


Max airgap flux density = 0.6T

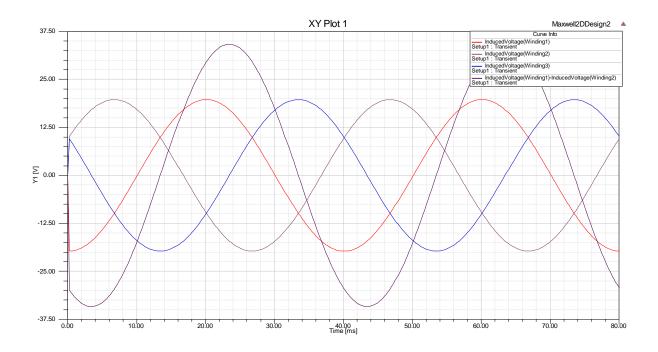


Simple model to find number of turns roughly





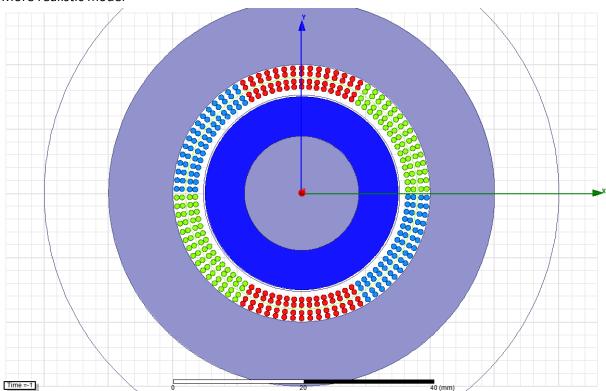
Induced voltage @1500 rpm 1turn



	\$rotor_core [mm]	Rms(InducedVoltage(Winding1)-InducedVoltage(Winding2)) Setup1 : Transient
1	8.884300	24.113909

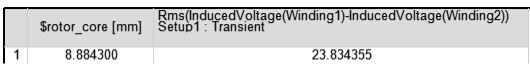
Induced voltage @1500 rpm 29 turns

More realistic model

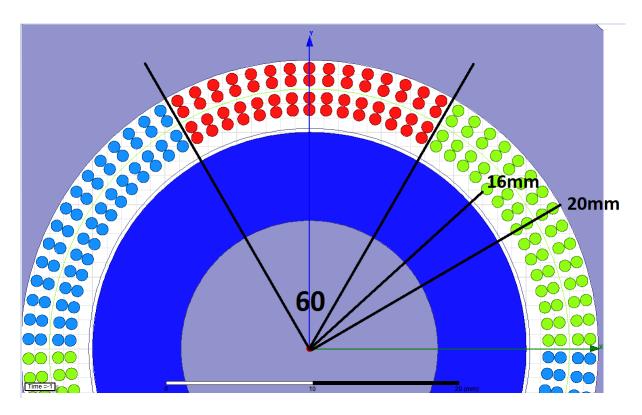


30 turns





Induced voltage @1500 rpm 30 turns



Area*fill factor=total copper area

Total copper area / number of conductors = copper area

Pi*(20^2-16^2)*(60/360)*0.7/60 = **0.88 mm^2 copper area**

Since 4 A/mm^2

3.52 Arms

Max input power: 3^0.5 * 3.52 * 23.83 = 145.29 VA