**EE568 Project-2**

**EBRU GENÇ**

# Integral Slot Winding Design

Machine design was made according to the below mentioned features.

* 20 pole
* 120 slots
* Full pitch.

Table 1: Winding diagram for full pitched

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A1 | A2 | -C1 | -C2 | B1 | B2 | -A3 | -A4 | C3 | C4 | -B3 | -B4 |
| A39 | A40 | -C39 | -C40 | B39 | B40 | -A1 | -A2 | C1 | C2 | -B1 | -B2 |

* For

* For
* For

-0.866

# Part2

# 2D FEA Modeling

Machine design was made according to the below mentioned features.

* 22 pole
* 24 slots

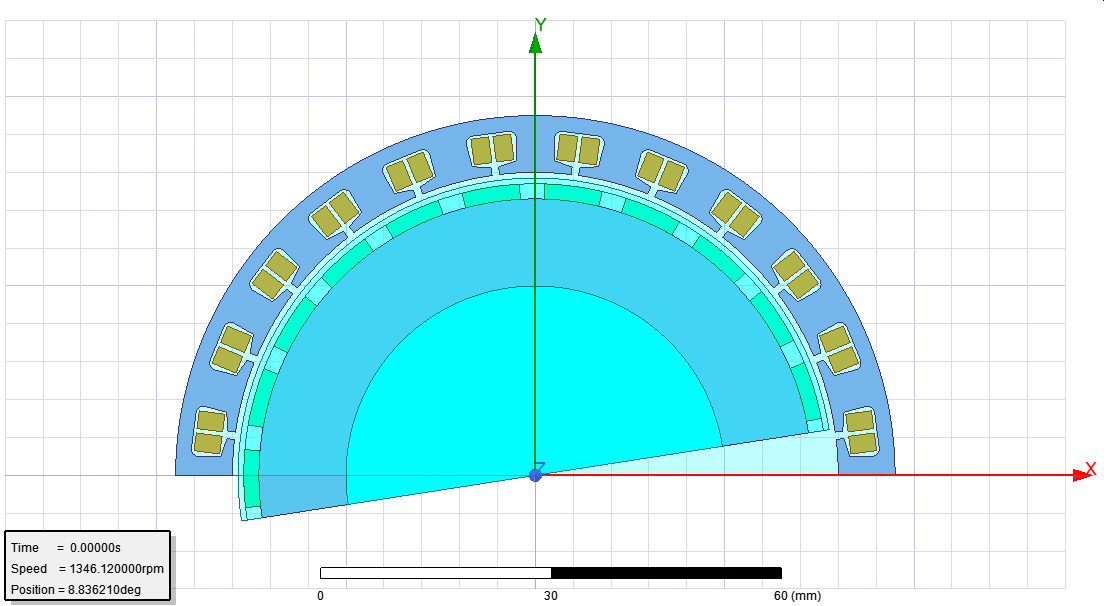


Figure 1: 2D FEA Modeling

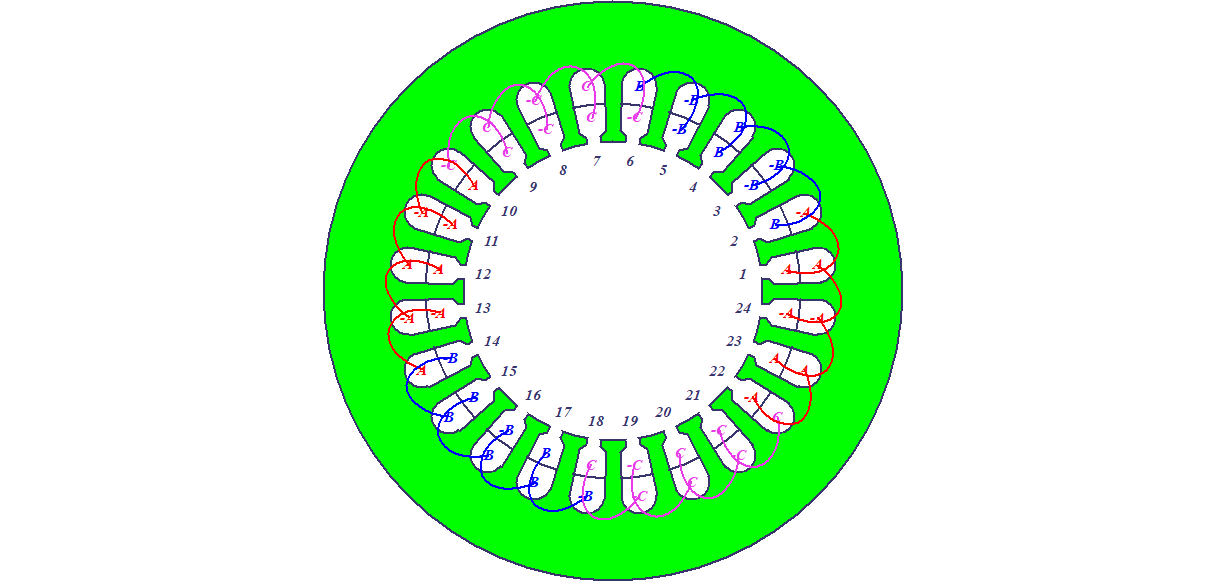


Figure 2: Winding Diagram

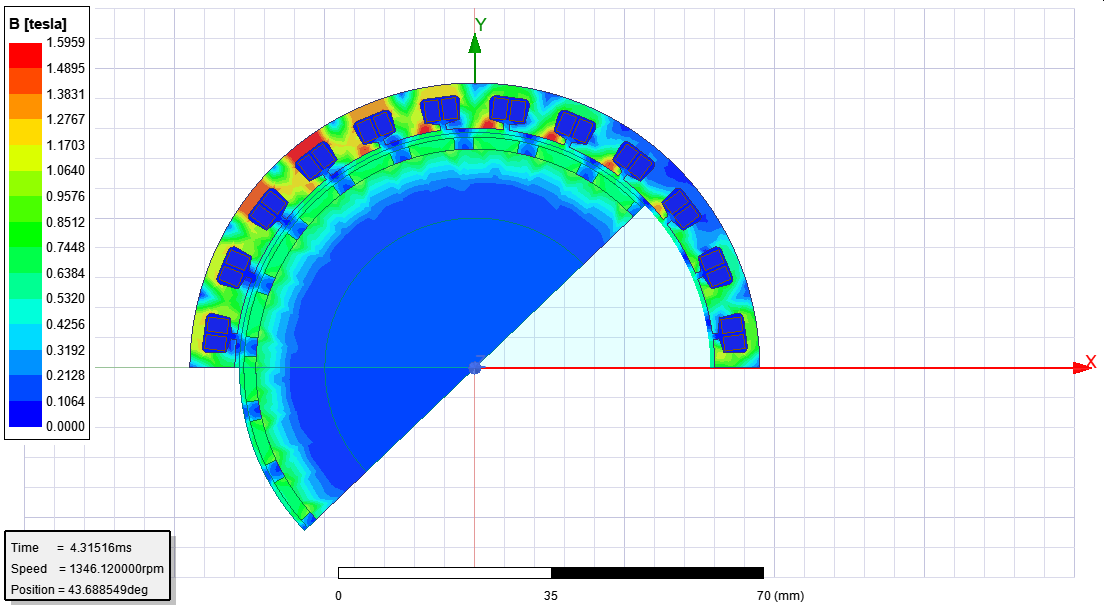


Figure 3

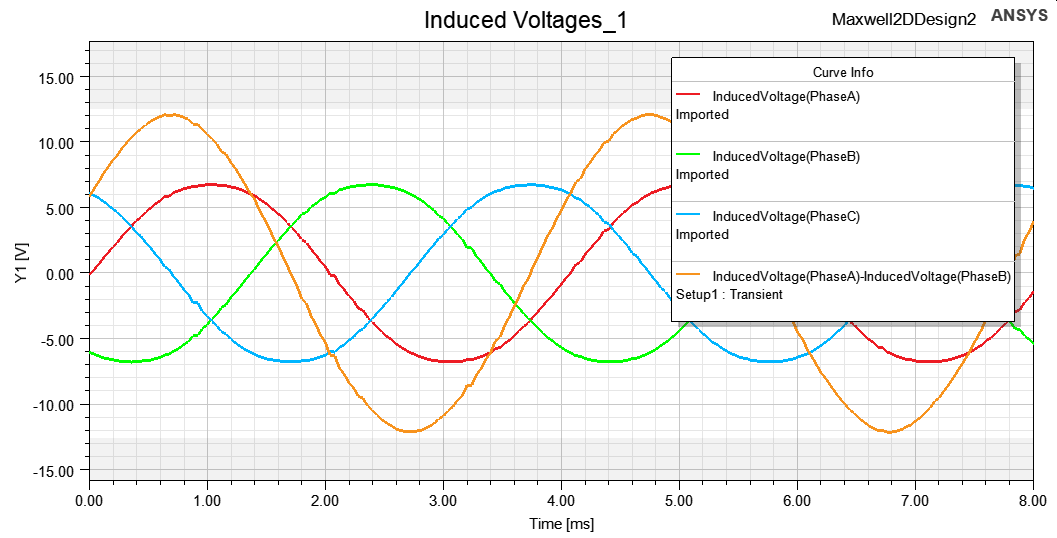


Figure 4

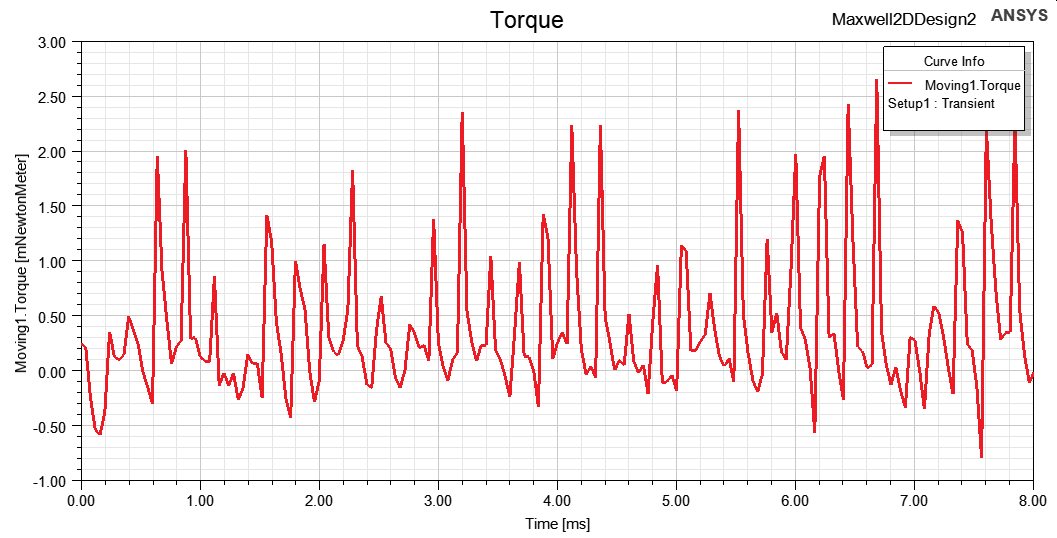


Figure 5: