Graphical user interface

Description automatically generatedA.1 Flux lines and flux density distribution in the model at time = 0

A.2 Induced Voltage and Flux linkage of the winding

Chart, line chart

Description automatically generated

From this graph we can determine that the frequency is 1Hz and the amplitude is 14.530 mV. Since frequency is one divide by the period, and a full period is 1 second, the frequency of the included voltage is 1 Hz.

Chart, line chart

Description automatically generatedB.1 Flux density magnitude on vertical line through the center

|  |  |  |
| --- | --- | --- |
| **Value** | **Calculated** | **Simulated** |
| **Induced Voltage** | 449.72mV | 29.0818 [mV] (pk2pk) |
| **Mag\_B Average** | n/a | 446.7239 [mT] |

Chart

Description automatically generatedC.1 Induced voltage and flux linkage of the winding

C.2 Determine the amplitude and the frequency of the induced voltage

|  |  |  |
| --- | --- | --- |
| **Value** | **Result** | **Units** |
| **Amplitude** | 72.3555 | mV |
| **Frequency** | 5 | Hz |

D.1 Induced Torque

Chart, line chart

Description automatically generated

|  |  |  |  |
| --- | --- | --- | --- |
| **Value** | **Simulated** | **Calculated** | **Units** |
| **Amplitude** | 2.3141 | 0.223 | m Nm |
| **Frequency** | 1 | N/A | Hz |
| **Average** | 0 | N/A | m Nm |