

Task 5: DOE analysis. Which parameter has more impact on the result (max efficiency)?

The min/max value for each parameter can be set as
nominal value +/-20% of nominal value

The following factors must be considered:

- Resistance
- Inductance
- Inertia
- Torque (Back emf) gain
- Battery voltage: 7.5 v, 16.5 v;
- Duty cycle: 15%, 25%;