```
Cross-section of different parts
Air-gap cross-section =  2415.10 [mm^2]
Stator tooth cross-section =  1100.00 [mm^2]
Stator yoke cross-section =  1050.00 [mm^2]

Flux densities in the different part of the machine when air-gap flux density is ↙
0.70 [T]
Stator tooth flux density =  1.54 [T]
Stator yoke flux density =  1.61 [T]
Rotor yoke flux density =  0.85 [T]

Magnetic field intensities in the different part of the machine when air-gap flux ↙
density is  0.70 [T]
Air-gap Magnetic field intensity =  557042.30 [A/m]
Stator tooth Magnetic field intensity =  2475.80 [A/m]
Stator yoke Magnetic field intensity =  4338.37 [A/m]
Rotor yoke Magnetic field intensity =  82.74 [A/m]

Length of flux path in different parts of the machine
Length of flux path in rotor =  39.17 [mm]
Length of flux path in stator yoke =  53.83 [mm]
Length of flux path in stator tooth =  15.50 [mm]
Length of flux path in air-gap =  1.00 [mm]

MMF drop in different parts of the machine when air-gap flux density is  0.70 [T]
MMF drop in rotor yoke =  3.24 [A-turn]
MMF drop in stator tooth =  38.37 [A-turn]
MMF drop in stator yoke =  233.52 [A-turn]
MMF drop in air-gap =  557.04 [A-turn]

Magnet thickness =  5.50 [mm]
Magnet width =  20.00 [mm]
No load flux in the air-gap =  0.00188 [Wb]
No load flux density in the air-gap =  0.78 [T]
No load flux density in stator tooth =  1.71 [T]
No load flux density in stator yoke =  1.79 [T]

Total number of turns per phase =  60
Total number of coils in series per phase =  4
Total number of turns per coil =  15
Total number of conductors per slot =  60
Slot area =  66.7 [mm^2]
Cu area =  21.8 [mm^2]
Fill factor =  0.33

Maximum per phase induced voltage at no-load =  31.1 [V]
Maximum line to line induced voltage at no-load =  53.9 [V]
Maximum line to line induced voltage at 1257 [rpm] =  1158.5 [V]
Ratio of maximum line to line induced and DC link voltage at max speed of 1257 [rpm] ↙
```

```
=  2.9

Resistance per phase =  162.0 [mOhm]
Reluctance of d-flux path =  5288871.1 [H^-1]
Reluctance of q-flux path =  1091846.4 [H^-1]
D-axis inductance =  1.0 [mH]
Q-axis inductance =  4.6 [mH]
Saliency ratio =  4.8
l_coil_theoretical =  0.3
l_coil_calc =  0.4
efficiency =  91.1
power_factor =  0.3
>>
```