

Motor parameters	KV 22	KV 11
Continuous Power (W)	13000	13000
Continuous Torque (Nm)	124.1	124.1
Rotation speed (rpm)	1,000	1,000
Efficiency (%)	94.2%	94.2%
Minimal Battery Voltage (V)	50.0	107.0
Phase Current RMS (A)	225	105
Power per mass (kW/kg)	1.3	1.1
Torque per mass (Nm/kg)	12.4	10.3
Losses (W)	803	803
Continuous Power (W)	26000	30000
Continuous Torque (Nm)	124.1	143.2
Rotation speed (rpm)	2,000	2,000
Efficiency (%)	95.7%	95.8%
Minimal Battery Voltage (V)	100.0	214.0
Phase Current RMS (A)	225	122
Power per mass (kW/kg)	2.6	2.5
Torque per mass (Nm/kg)	12.4	11.9
Losses (W)	1163	1315
Continuous Power (W)	40000	50000
Continuous Torque (Nm)	95.5	119.4
Rotation speed (rpm)	4,000	4,000
Efficiency (%)	96.0%	96.3%
Minimal Battery Voltage (V)	192.5	414.0
Phase Current RMS (A)	173	102
Power per mass (kW/kg)	4.0	4.2
Torque per mass (Nm/kg)	9.5	9.9
Losses (W)	1667	1948
Motor Mass (kg)	10	12
Max Rotation Speed (rpm)	4,300	4,300
Lamination length (mm)	50	50
Number of poles	28.00	28.00
Number of slots	24.00	24.00
Cooling system	air outside	air outside
Wire size	1.2x4.5 12 turns	0.6x4.5 23 turns
Phase cross section (mm ²) (7AWG 7.2 mm)	21.6	10.8
Phase current density (Continuous) (Arms/mm ²)	10.4	11.3
Torque Pulsation (Continuous) (%)	3.3%	3.6%
Motor velocity constant KV (rpm/V)	22.3	10.5
Motor torque constant Kt (Nm/A)	0.43	0.91
Size D/L (mm)	226/70	226/70
Magnets grade (max temp 150 C)	N52UH	N52UH
Stator core steel	H75-20	H75-20
Motor max working temp (C)	150.00	150.00
Battery max voltage (V)	202	403
Battery min voltage (V)	144	288
Motor mounting	6xM6 on 60 mm	6xM6 on 60 mm
Motor mounting:	6xM6 on 60 mm	6xM6 on 60 mm
Safety factor	3	3
Temperature sensor	PT1000	PT1000
TBO 100 kg 1000 rpm (hour)	3921	3921
Trust continues (kg)	100	100