

Motor parameters	KV 12	KV 6
Continuous Power (kW)	70.0	70.0
Continuous Torque (Nm)	668	668
Rotation Speed (rpm)	1,000	1,000
Efficiency (%)	93.80%	93.80%
Minimal DC Voltage (V)	51	102
Phase Current RMS (A)	619	309
Power per mass (kW/kg)	1.8	1.8
Torque per mass (Nm/kg)	17.6	17.6
Losses (kW)	4.63	4.63
Continuous Power (kW)	140.0	140.0
Continuous Torque (Nm)	668	668
Rotation Speed (rpm)	2,000	2,000
Efficiency (%)	94.9%	94.9%
Minimal DC Voltage (V)	117	233
Phase Current RMS (A)	658	329
Power per mass (kW/kg)	3.7	3.7
Torque per mass (Nm/kg)	17.6	17.6
Losses (kW)	7.52	7.52
Continuous Power (kW)	170.0	170.0
Continuous Torque (Nm)	406	406
Rotation Speed (rpm)	4,000	4,000
Efficiency (%)	95.63%	95.63%
Minimal DC Voltage (V)	194	388
Phase Current RMS (A)	405	203
Power per mass (kW/kg)	4.5	4.5
Torque per mass (Nm/kg)	10.7	10.7
Losses (kW)	7.77	7.77
Motor Mass (kg)	38	38
Max Rotation Speed (rpm)	4,000	4,000
Lamination length (mm)	70	70
Number of poles	28	28
Number of slots	24	24
Cooling system	Liquid	Liquid
Protection Rating	IP65	IP65
Phase cross section (mm ²) (2 AWG 14 mm)	48	24
Phase current density (Continuous) (Arms/mm ²)	14.0	14.0
Torque Pulsation (Continuous) (%)	3.9%	3.9%
Motor velocity constant Kv (rpm/V)	12	6
Battery max voltage (V)	403	806
Battery min voltage (V)	288	576
Temperature sensor	PT1000	PT1000
TBO 500 kg 2000 rpm (hour)	11979	11979
Trust Continuous (kg)	500	500