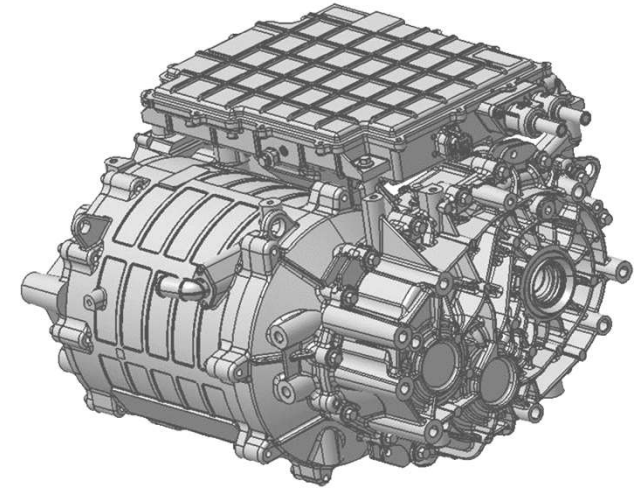




170kW 3 in 1 Drive System

170kW Drive System Summary

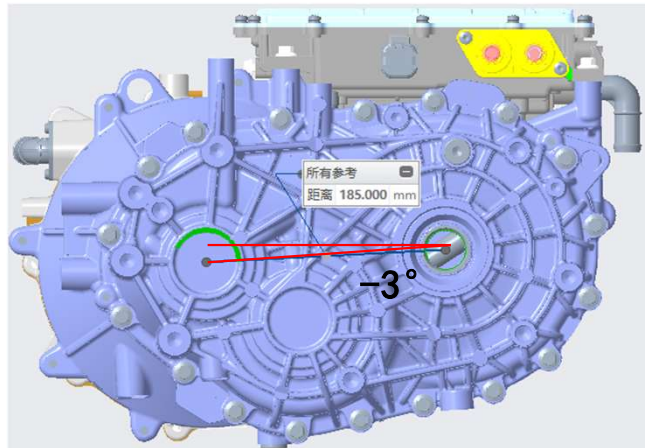
Drive System Parameters		
Items	Unit	Value
Peak Power	kW	170
Peak Torque	Nm	320
Max speed	rpm	16000
Continuous Power	kW	70
Continuous Torque	Nm	150
Base Speed	rpm	5000
Reduction Ratio	/	11.526
Max Speed Output from Gearbox	rpm	1388
Peak Torque Output from Gearbox	Nm	3688
Max Efficiency, system	%	93
Weight	kg	84±2



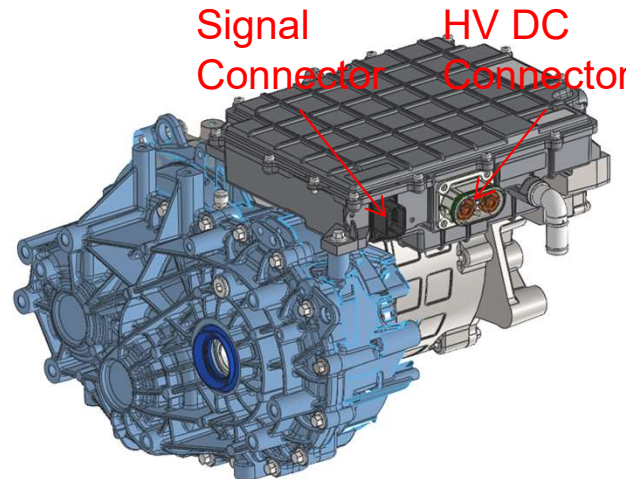
Items	Unit	Value
DC Input Voltage, nominal	VDC	360
DC Input Voltage, range	Nm	230-450
Coolant Inlet Temp	°C	≤65
Operating Ambient Temp	°C	-40~+85
Altitude	m	≤3500

170kW Drive System Summary

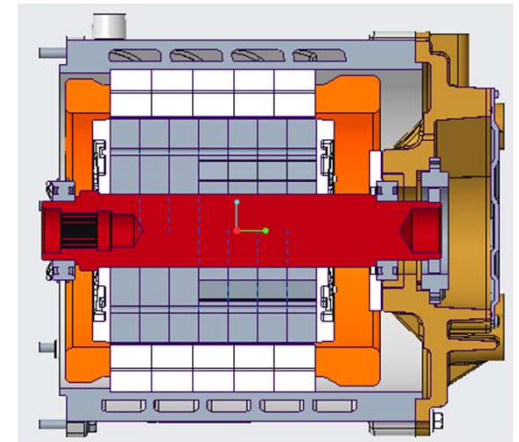
- Drive System Assembly-Structural and Packaging Design: 3D model's available



- Center Distance: 185mm;
- Angle with horizontal line: -3°
- Drive System Size /mm:
475L*465W*337H
3D model is available



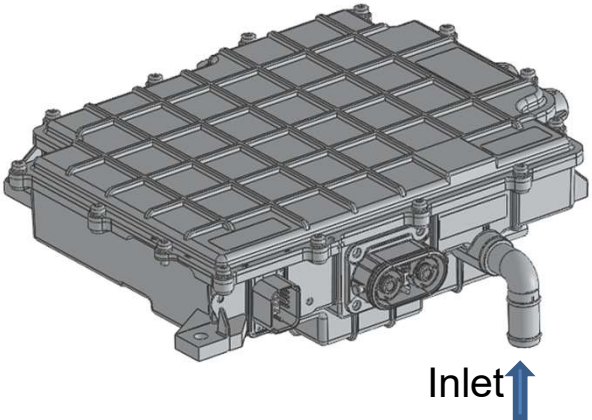
Motor Cross Section :



- Motor and gearbox transmit power by spline connection;
- Motor output shaft and gearbox input shaft are separated. They are supported by 4 bearings;
- Motor and inverter are connected by copper busbars for 3 phases.
- Inverter outlet connects to motor inlet directly without extra pipe.

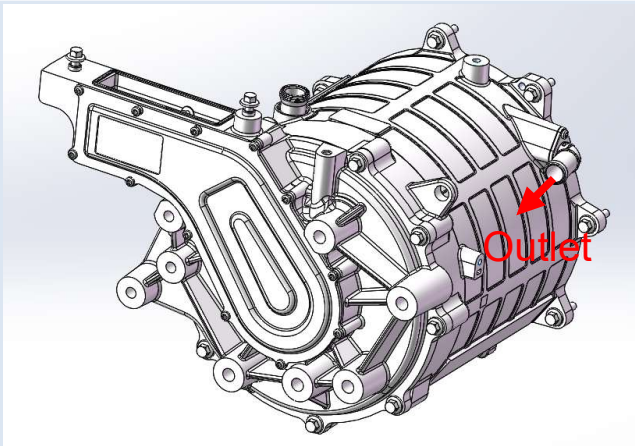


170kW Inverter Summary

Inverter	Item	Value
	Bus Voltage Range (V)	230-450
	Rated Bus Voltage (V)	360
	Inverter kVA Rating (kVA)	224.7
	Peak Output Current@30s (Arms)	520
	Rated Output Current (Arms)	260A
	Max. Coolant Inlet Temperature (°C)	65
	Max Efficiency (%)	99.5
	Ambient Temperature Range (°C)	-40-85



170kW Motor Summary



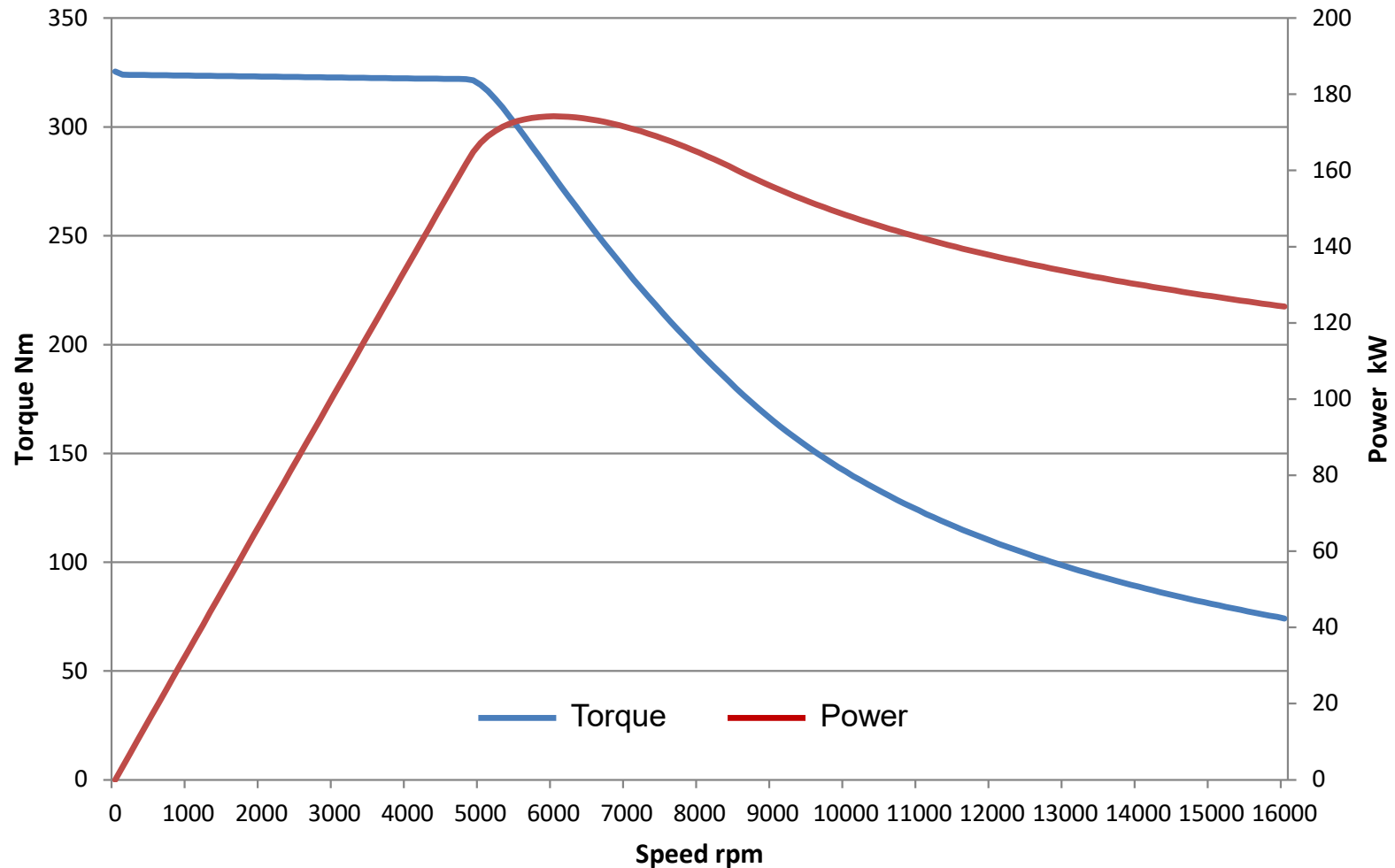
Item	Value
Back EMF@1000rpm	24.9Vrms
IP	IP67
Cooling Method	Liquid Cooled
Pole Pairs	4
Stack length (mm)	140
Max Phase Current (Arms)	500
Peak Power (Kw)	170
Peak Torque (Nm)	320
Max Speed (rpm)	16000
Max Efficiency	96.5%
Weight (kg)	50
Motor Size	See Drawing

Item	Value
Motor Type	IPM
Stator OD (mm)	220
Phase Number	3
Continuous Power (Kw)	70
Continuous Torque (Nm)	135
Base Speed(rpm)	5000



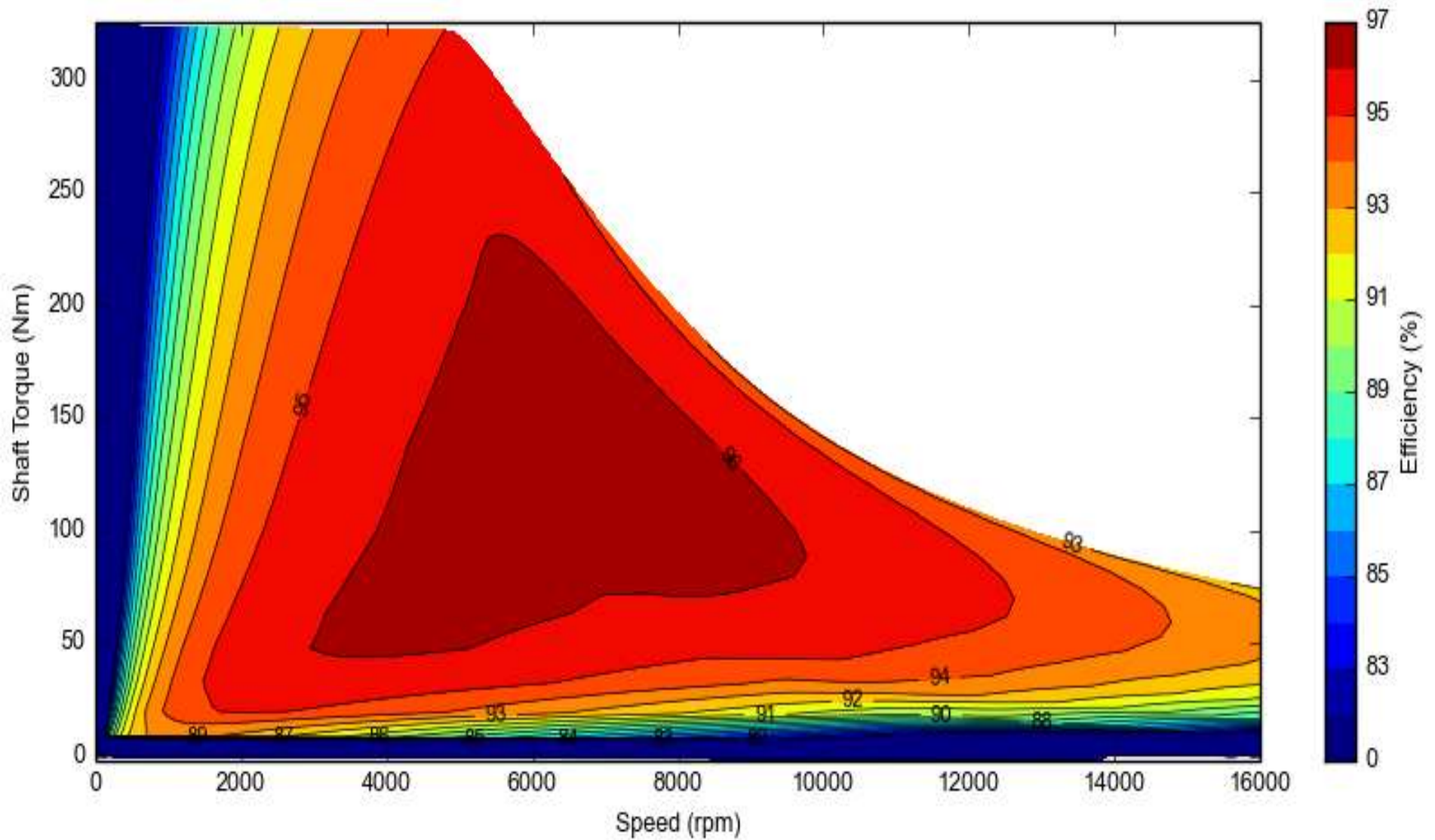
170kW Motor Peak Performance

Peak Performance @400Vdc

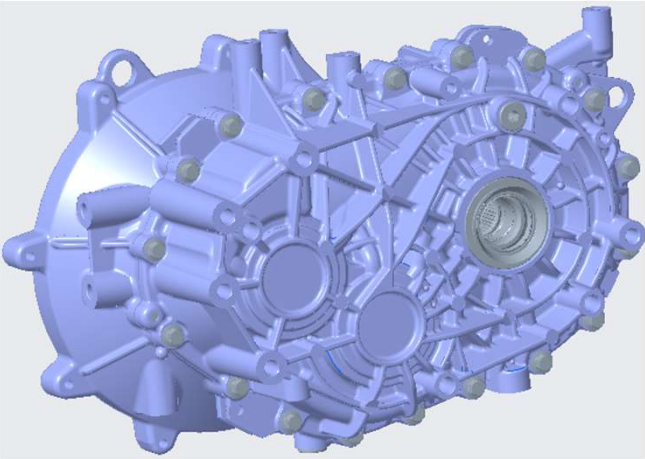




170kW Motor Efficiency



170kW Gearbox Summary

Gearbox	Item	Value
	Max Output Torque (Nm)	3688
	Max Input Speed (rpm)	16000
	Reduction Ratio	11.526
	Center Distance (mm)	185
	Parking lock	No
	Overall Efficiency	>96%
	Design Life	300,000km or 10years
	Lubricant and Lubrication Method	Castrol BOT352B1 BEV, Volume: 0.65L-0.75L Splash
	Operating Ambient Temperature (°C)	-40~+125