

CTEM Permanent Magnet Synchronous Motor

The CTEM Permanent Magnet Synchronous Motor (PMSM) is specially designed for electric vehicles. The power density of CTEM Motor exceeds other motors of the same rating. CTEM can be used with Hall sensors or encoder.



Modular Stator

Modular stator assembly improves the motor slot full rate, compresses the motor end cover space, and provides power density ratio.

IPM Rotor

Use the IPM design to increase the usable range of the motor.

Build-in Reducer

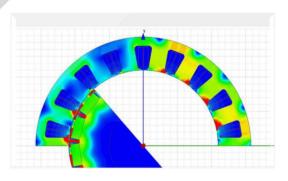
Optimize structure increase strength and reduce weight.

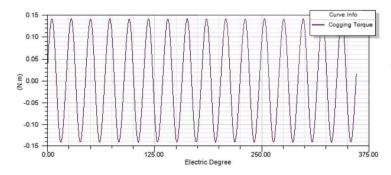
Air cooling design

No additional cooling system.

Magnetic Circuit Optimization Design

The optimized design of the magnetic circuit suppresses the magnetic saturation problem under high current.





Minimal Cogging Torque

Extremely small buck rotation reduces the torque ripple of the motor, allowing the motor to continuously output 10HP horsepower.



Product Number

CTEM		6K0		<u>H</u>	Α	N	736N
①	2	3	_	4	<u>(S)</u>	6	7

①	Product Type	
② M	Motor Typo	S: SPM
	Motor Type	I : IPM
③ F	Rated Power	3K0: 3kW
	nateu rowei	6K0:6kW
Posi	Position Sensor	H: 120° Hell sensor
	POSITION SENSOR	E: Encoder
© Cooli		N : air cooling
	Cooling System	W: water cooling
		A: forced air cooling
⑦ Reduc		736N: Single tooth deceleration 1:7.36.
		645N: Single tooth deceleration 1:6.45.
	Reducer Gear Ratio	540N: Single tooth deceleration 1:5.40.
	neducei Geal Natio	000N: No reducer.
		3GA/2GA: 3/2 gears automatic.
		3GM/2GM: 3/2 gears manual.

Specifications

Model		CTEMI3KO-	СТЕМІ6КО-ПППП		
Ke		0.01179 Wb	0.025 Wb		
Rated Power		3 kW	6 kW		
Rated Torque		8 Nm	16 Nm		
Effectiveness		90%	90%		
Max. Power		8 kW	16 kW		
Max. Voltage Input		140 VDC	300 VDC		
Max. Torque		38.4 Nm	72 Nm		
Max. Phase Current		180 A(r.m.s)			
Cogging Torque		0.14 Nm			
User	Temperature	-10°C ~60°C (No freezing)			
Environment Humidity 80% (No frost)			o frost)		

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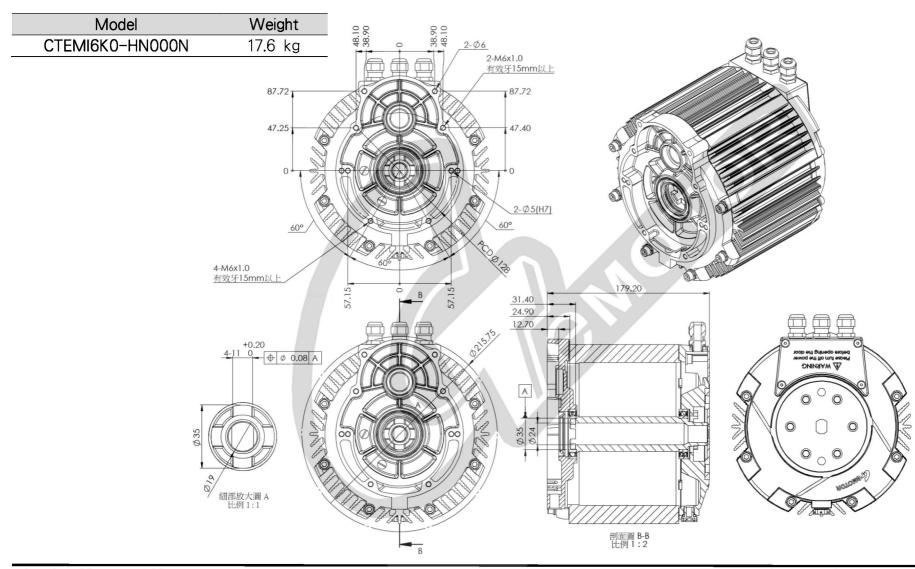
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Dimensions



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