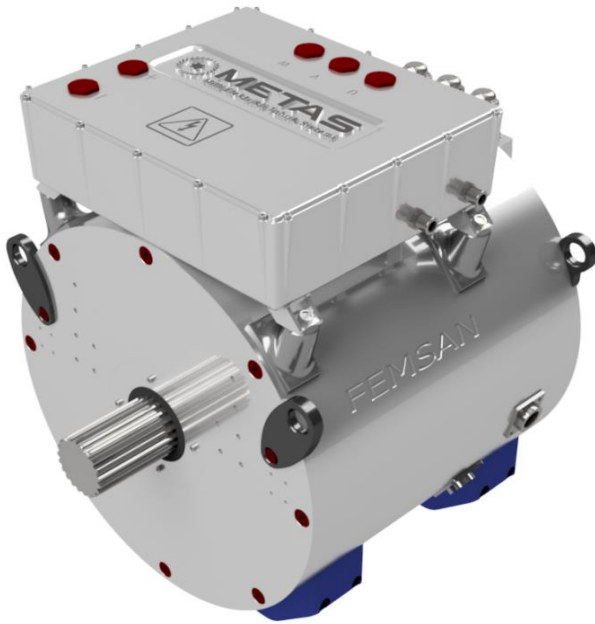


E-Mobility Solutions for Heavy Duty Commercial and Military Vehicles

Your gateway to zero emission



Among the key components of an EV, the electric motor plays a critical role in determining its performance and efficiency. In recent years, Permanent Magnet Synchronous Motors (PMSM) and their controllers have emerged as the preferred choice for e-mobility applications.

Radial and axial flux PMSM motors are the ideal choice for e-mobility applications because of their high efficiency, power density, variable speed capability, and low maintenance requirements. They are also compatible with a wide range of battery technologies, which makes them flexible and adaptable to different types of EVs.

Maximum Values of 5 F 460 220			
Max. Supply Voltage	800 V. DC	Maximum Torque	2800 Nm.
Max. Speed	3700 rpm	Maximum Current	750 A.

Motor Specs		
Nominal Speed	1500	rpm
Nominal Torque	700	Nm.
Nominal Current	250	A.
Nominal Power	110	kW.
Peak Power	220	kW.
Supply Voltage	500-800	V. DC
Efficiency	96	%
Number of Phase *	3	
Motor Type	IPM	

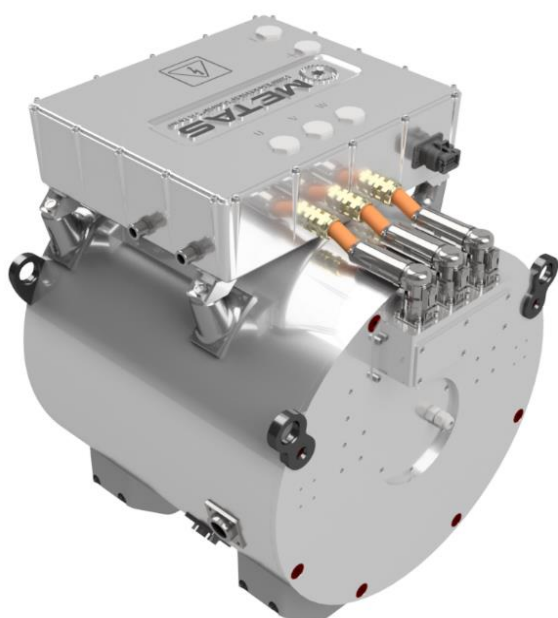
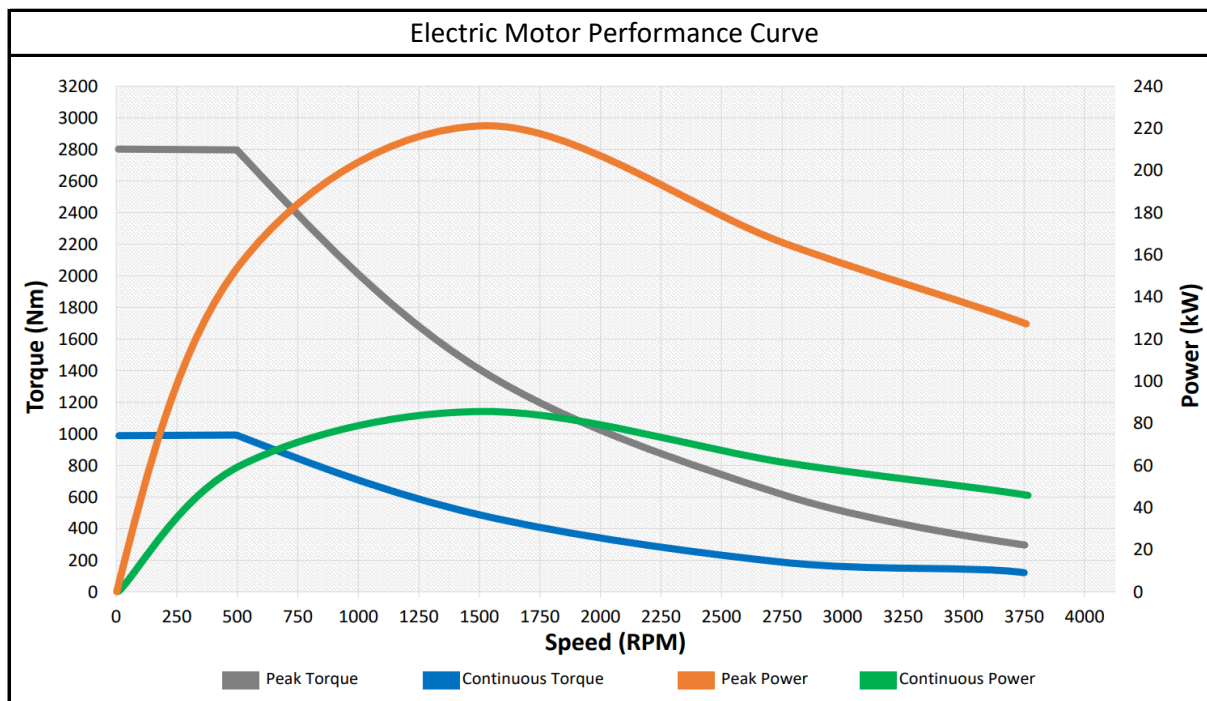
* 6 - 12 Phase options available on request

Controller Specs		
Driver Type	Paralled IGBT	
Continuous Power	220	kW.
Peak Power	450	kW.
Swithing Frequency	10	kHz.
Efficiency	98	%
Communication *	CANBUS 2.0B-J1939	
	RS 232	
Position Feedback *	Resolver	
Connectors *	Terminal Box	

* Options available on request

Other System Specs

Cooling Type	Water / Glycol	Protection Class	IP 67
Cooling Flow	25 lt./min.	Working Temperature	-40 / +70 °C
Max. Cooling Liquid	65 °C	Insulation Class	H - 180 °C
Temperature Sensor	PT 1000	Number of Poles	12
Mom. of Inertia	TBD	System Total Weight	240 kg.
Mec. Time Constant	TBD	Shaft Type	Spline / Plain



Application Fields
Heavy Duty Commercial Vehicles
Heavy Goods Vehicles
Military Armored Vehicles
Electric Axes