

E-Mobility Solutions for Heavy Duty Unmanned Ground Vehicles - UGVs

*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 C 308 091			
Max. Supply Voltage	96 V. DC	Maximum Torque	210 Nm.
Max. Speed	3000 rpm	Maximum Current	500 A.

Motor Specs		
Nominal Speed	1900	rpm
Nominal Torque	105	Nm.
Nominal Current	250	A.
Nominal Power	21	kW.
Peak Power	42	kW.
Supply Voltage	96	V. DC
Efficiency	92	%
Number of Phase	3	
Voltage Constant	40	V / krpm
Torque Constant	0,42	Nm./A.
Resistance	0,01	ohm
Inductance	0,088	mH.
Number of Poles	8	

- **Liquid Cooling**
- **IP54 Protection**
- **NTC Thermal Protection**
- **Encoder or Resolver Feedback**



Motor Controllers are available on request