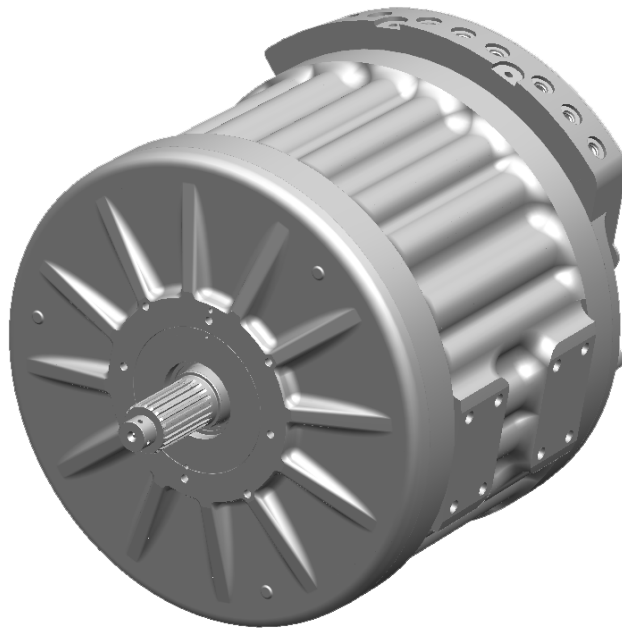


HVSM-285

PERMANENT MAGNET MOTOR
FOR HYBRID/ELECTRIC VEHICLE APPLICATIONS



Product Description

ASELSAN's HVSM-285 electric motor is a nine-phase permanent magnet motor that offers a very high power and torque density in a compact structure. Its design makes it completely fitting for hybrid and electric vehicle applications.

The HVSM-285 electric motor has low cogging torque and high efficiency. This motor also facilitates energy savings, to be controlled easily at low speed and to be able to rise to the high speed due to the flux weakening capability.

Typical Applications

- Medium to High Duty Traction Vehicles
- Trucks, Transit Buses, Highway Vehicles

Product Features

- Permanent magnet technology
- Low cogging torque
- Very high torque and power density
- Low electro-magnetic noise
- Nine-phase topology
- Integrated resolver for position feedback
- Four-quadrant operation
- High efficiency
- High Voltage Interlock (HVIL)
- Liquid cooling system
- High IP protection

HVSM-285

PERMANENT MAGNET MOTOR FOR HYBRID/ELECTRIC VEHICLE APPLICATIONS

General Specifications

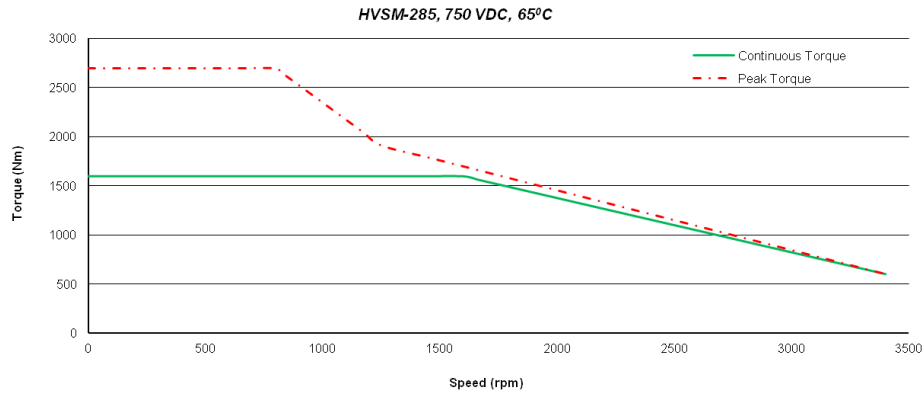
Rating

Continuous Power	: 150 kW
Peak Power (up to 60 s.)	: 250 kW
Continuous Torque	: 1600 Nm
Peak Torque (up to 60 s.)	: 2700 Nm
Base Speed	: 1600 rpm
Operating Speed Range	: 0-3400 rpm
Operating Voltage Range	: 450-750 VDC

Electrical Performance

Thermal & Mechanical Data

Max. Inlet Cooling Temperature	: 65 °C
Max. Temperature Limit	: Class H (180 °C)
Nominal Cooling Flow	: 40 l/min
Coolant Type	: 50/50 Water-Glycol
Weight	: 350 kg
Operational Temperature	: -40 °C / +85 °C
Sealing	: IP65



Dimensions

