

High-Performance Permanent Magnet Synchronous Motor for EVs

This high-performance motor improves torque and power density through high-quality magnetic steel. Its lightweight rotor reduces both the motor's weight and the rotor's rotary inertia.



Overview

High-Performance EV Propulsion

This Permanent Magnet Synchronous Motor is engineered specifically for new energy vehicle applications, focusing on maximizing torque and power density. It features a lightweight rotor design to minimize rotary inertia and utilizes advanced magnetic steel for superior performance. With an IP67 protection rating and robust thermal management, this motor ensures reliable operation in demanding automotive environments.

Performance Metrics

Rated Power

18 kW

Rated Power

45 kW

Peak Power

Speed Specifications

2000 RPM

Rated Speed

6000 RPM

Peak Speed

Technical Specifications

Efficiency Class

IE4

Protection Class

IP67

Insulation Class

H

Rated Voltage

310 VDC

Environmental & Design

Ambient Temperature Range

-15°C to 40°C

Cooling Methods

IC411, IC410, IC416, Water-cooled

Housing Material

Aluminum