

IPM220 Series

High-Efficiency Electric Motor

Design Highlights

- ✓ **Efficient:** high-performance IPM motor design
- ✓ **Compact:** space-saving solution, easy to install
- ✓ **Powerful:** high torque density with low weight
- ✓ **Modular:** multiple stator lengths and interfaces
- ✓ **Sealed:** up to IP66 for rough conditions
- ✓ **Through-Shaft Sensor:** direct mechanical coupling



Technical Snapshot

Voltage Range

24-96V

Peak Torque

60-195Nm

Cont Power

5-23kW

Peak Power

13-50kW

Max Operating Speed

6500rpm

AMRE IPM motors combine efficiency, reliability, and compact size for traction and pump applications. With a through-shaft sensor, scalable design, and flexible layouts, they meet the demands of modern electrification delivering strong performance through cost-effective solutions.



Application Policy

Performance ratings and specifications may vary depending on the model and service conditions. Application approval must be obtained from AMRE srl. AMRE reserves the right to alter product specifications, configurations, or dimensions without prior notice.

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IPM220H40 – Technical Specifications

Motor Applications



Pump



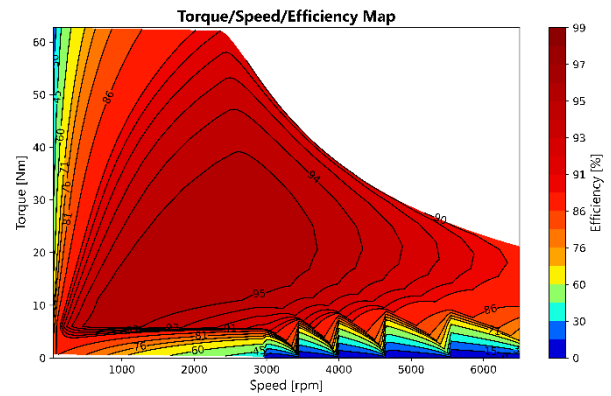
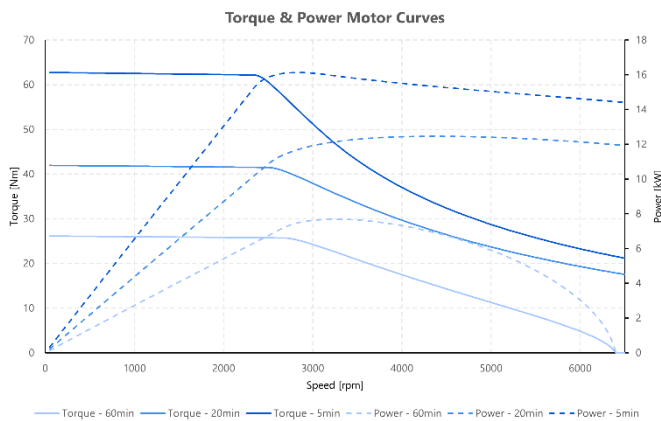
Drive – Wheel Unit



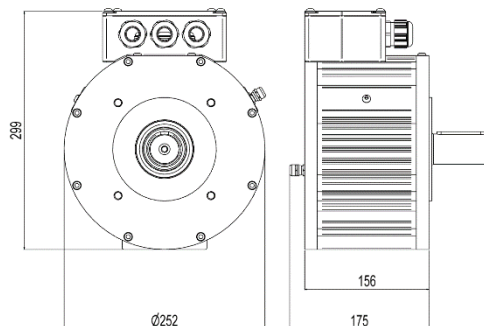
Transaxle

Performance Charts – 48V

Motor	Voltage	Peak Power	Cont Power	Peak Torque	Weight	Max Speed
IPM220H40	24-96V	11-15kW	6-8kW	62Nm	25kg	6500rpm



Overall dimensions



Recommended Inverter

For maximum performance and efficiency, use the DMC SigmaLite or Size 2 inverter configured with AMRE's bench-tested characterization parameters.

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IPM220H80 – Technical Specifications

Motor Applications



Pump



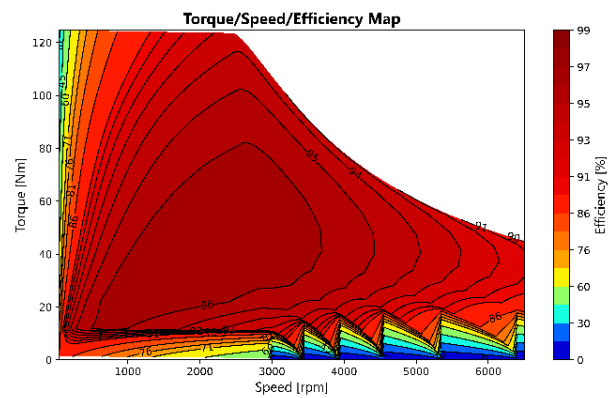
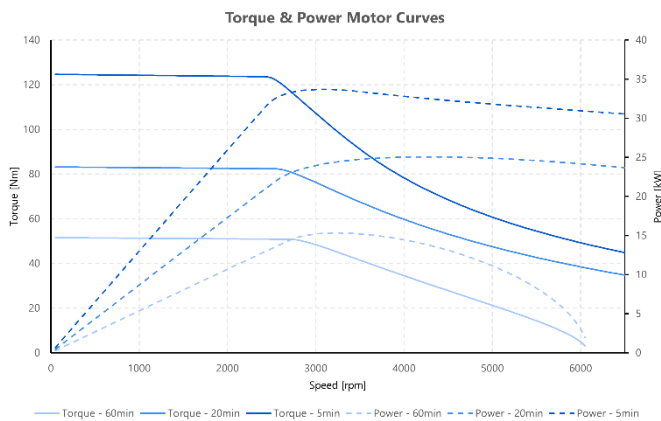
Drive – Wheel Unit



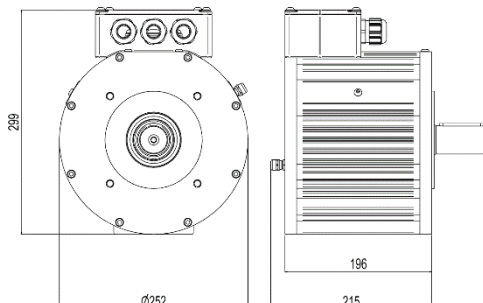
Transaxle

Performance Charts – 80V

Motor	Voltage	Peak Power	Cont Power	Peak Torque	Weight	Max Speed
IPM220H80	48-96V	25-41kW	12-19kW	125Nm	35kg	6500rpm



Overall dimensions



Recommended Inverter

For maximum performance and efficiency, use the DMC Size 3 or Size 4 inverter configured with AMRE's bench-tested characterization parameters.

Application Policy

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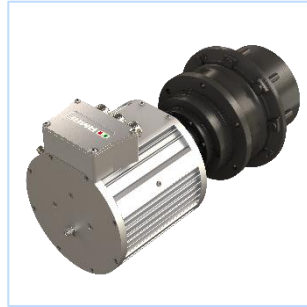


IPM220H120 – Technical Specifications

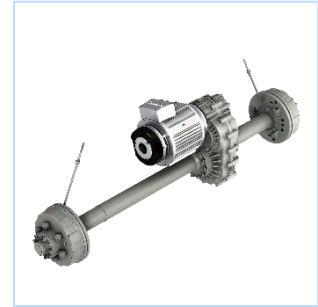
Motor Applications



Pump



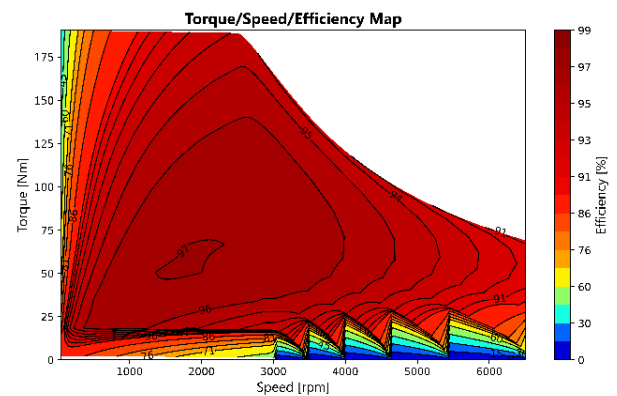
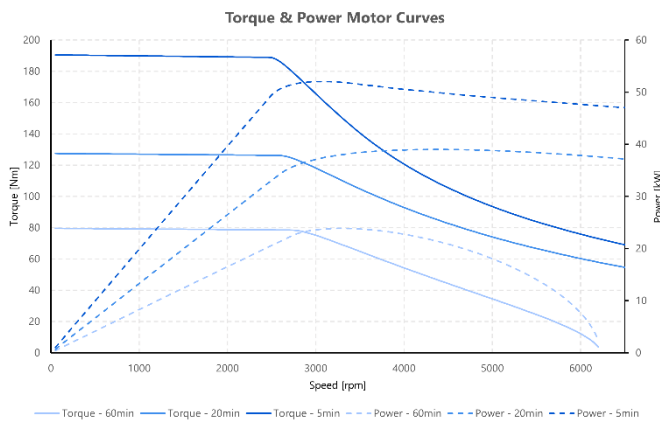
Drive – Wheel Unit



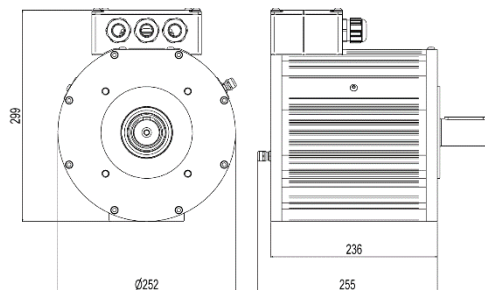
Transaxle

Performance Charts – 96V

Motor	Voltage	Peak Power	Cont Power	Peak Torque	Weight	Max Speed
IPM220H120	80-96V	35-50kW	16-23kW	195Nm	45kg	6500rpm



Overall dimensions



Recommended Inverter

For maximum performance and efficiency, use the DMC Size 3 or Size 4 inverter configured with AMRE's bench-tested characterization parameters.

Application Policy

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