HDRM™150TC

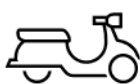## Lightweight, powerful and efficient for light commercial vehicles.

The HDRM™150 Series are rare earth magnet-free motors developed in response to customer demand for a lightweight, freewheeling motor to drive light commercial vehicles and trailer-driven systems. A uniquely recyclable option is in development using patented aluminium windings.
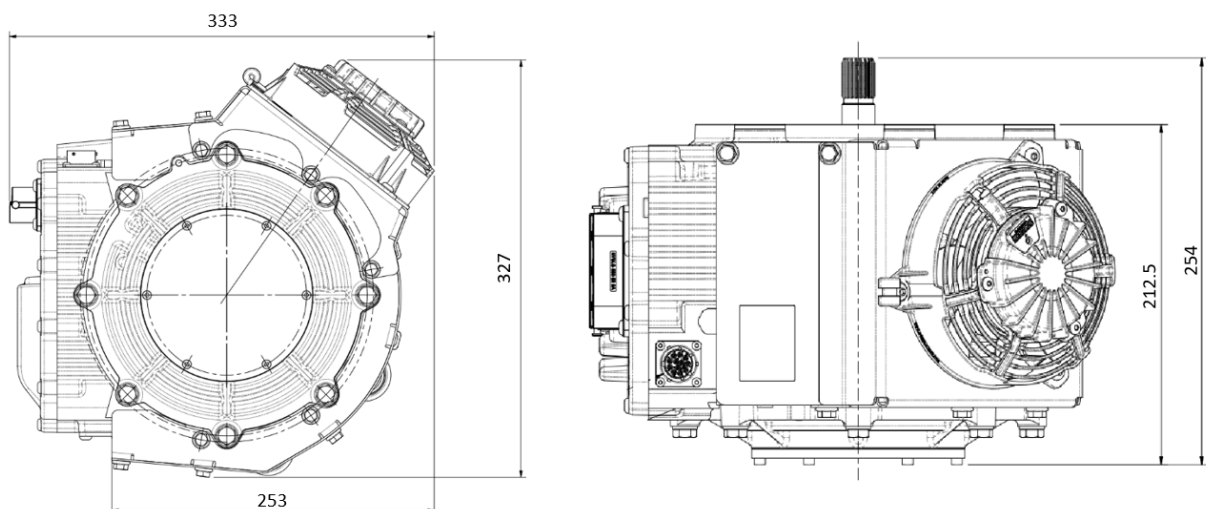
Features

→ Sustainable, magnet-free motor with recyclable option.

→ Ingress Protection level IP6K9K[1].

→ No risk of demagnetization, allowing motors to run faster and hotter.

→ No back-EMF or short circuit current to ensure safe failure modes.

→ No cogging at high speeds for high drive cycle efficiencies.

→ Compressed windings to reduce mass and enhance continuous performance.

→ Aluminium compressed windings in development to produce uniquely recyclable motor.

→ Air-cooled for simplicity.

→ Available with or without fan and cowling.

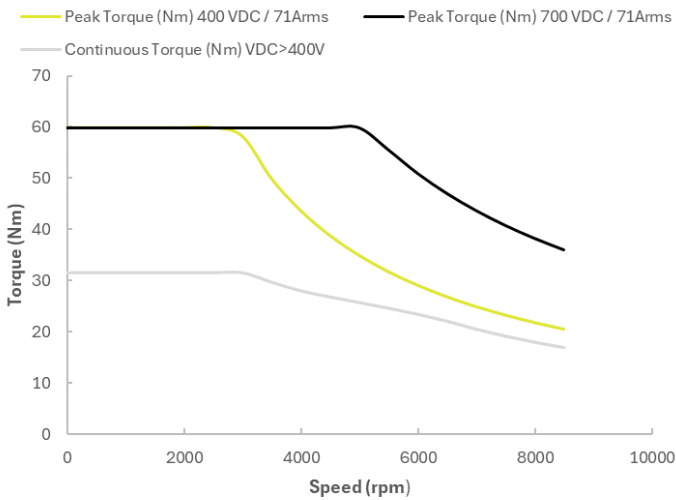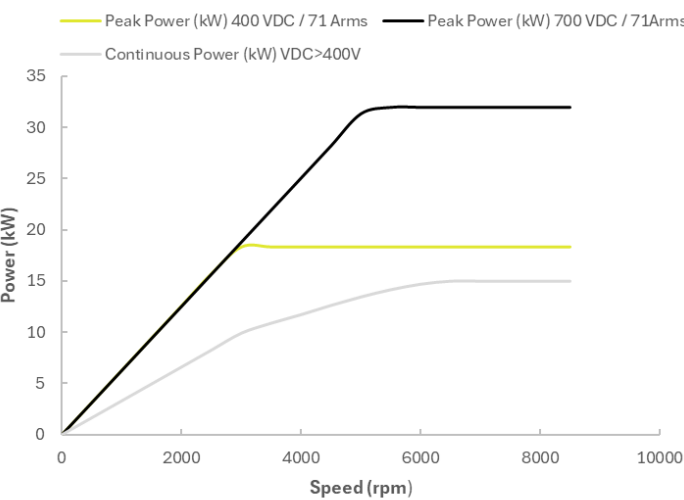[1]Subject to system mounting interface and seal.

Dimensions

Performance

	HDRM™150TC Air-Cooled (71 Arms)	HDRM™150TC Water-Cooled (200 Arms)
Peak Power	32 kW (5,000 rpm, 700 VDC)	41 kW (5,000 rpm, 350 VDC)
Continuous Power	15 kW (6,000 rpm)	30 kW (6,000 rpm)
Peak Torque	60 Nm	85 Nm
Continuous Torque	32 Nm	60 Nm
Max. Speed	8,400 rpm	8,400 rpm
Weight	29.5 kg	20 kg
Cooling	Air	Water / Glycol

HDRM™150TC Air-Cooled

HDRM™150TC Water-Cooled

Notes: Data based on 71 Arms (air-cooled) & 200 Arms (water-cooled) Peak current, 40 Arms Continuous current. Improved peak performance possible with a higher current inverter. Peak performance at 700 VDC (air-cooled) & 350 VDC (water-cooled). Continuous performance at 400 VDC. Continuous power for 60 minutes at 40degC. 200 Arms is simulated data.

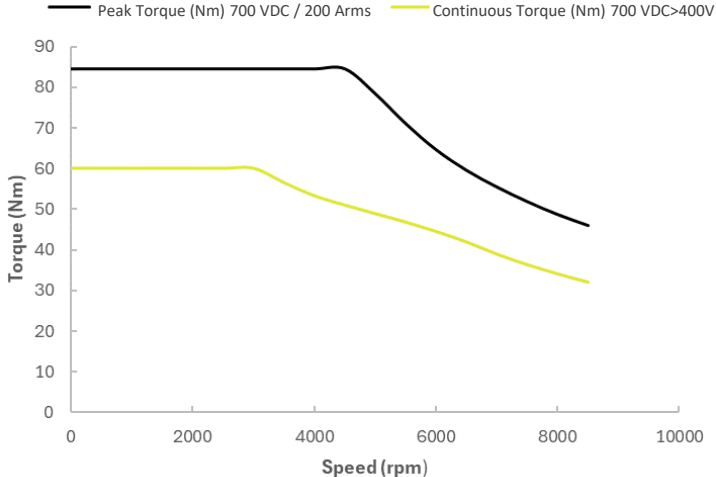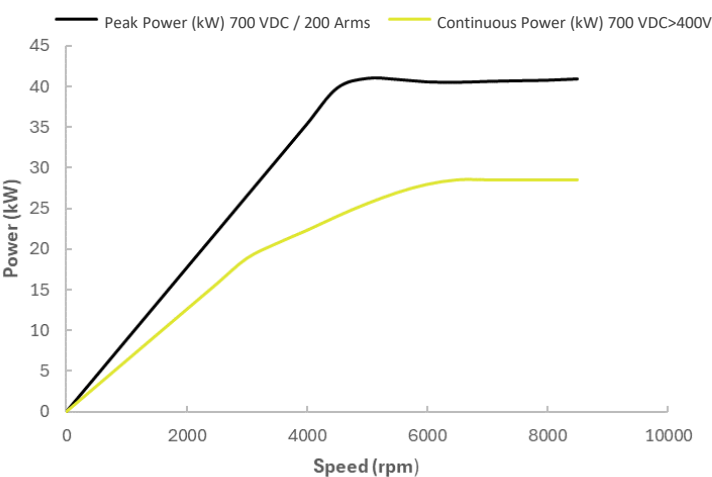Advanced Electric Machines reserves the right to change or modify product specifications, configurations, or dimensions at any time without notice.