

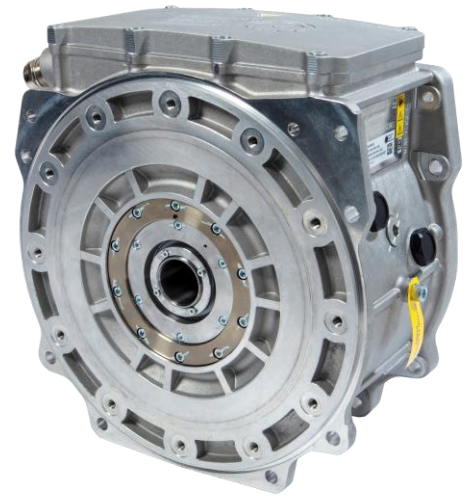
HDRM™300

Next-generation traction motors for commercial vehicles

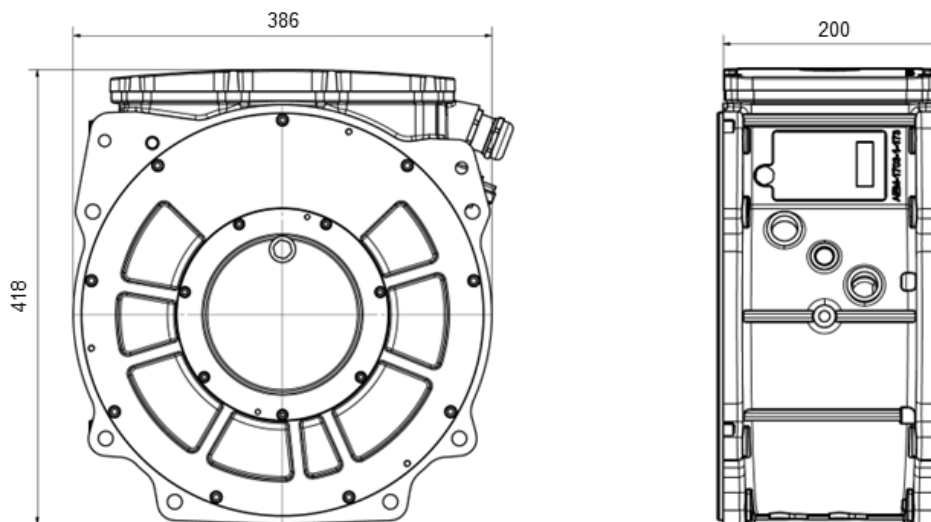
The HDRM™300 Series are rare earth magnet-free motors offering market-leading performance, efficiency and sustainability for a range of applications. Using off-the-shelf power electronics, the HDRM™300 motors are a direct replacement for permanent magnet machines.

Features

- Sustainable, magnet-free motor.
- Modular, stackable design for a wide range of applications.
- Robust and maintenance-free with the motor sealed for life.
- Ingress Protection Level IP67.
- Freewheeling capability allowing vehicle to coast when necessary.
- Inverter agnostic.
- 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.



Dimensions

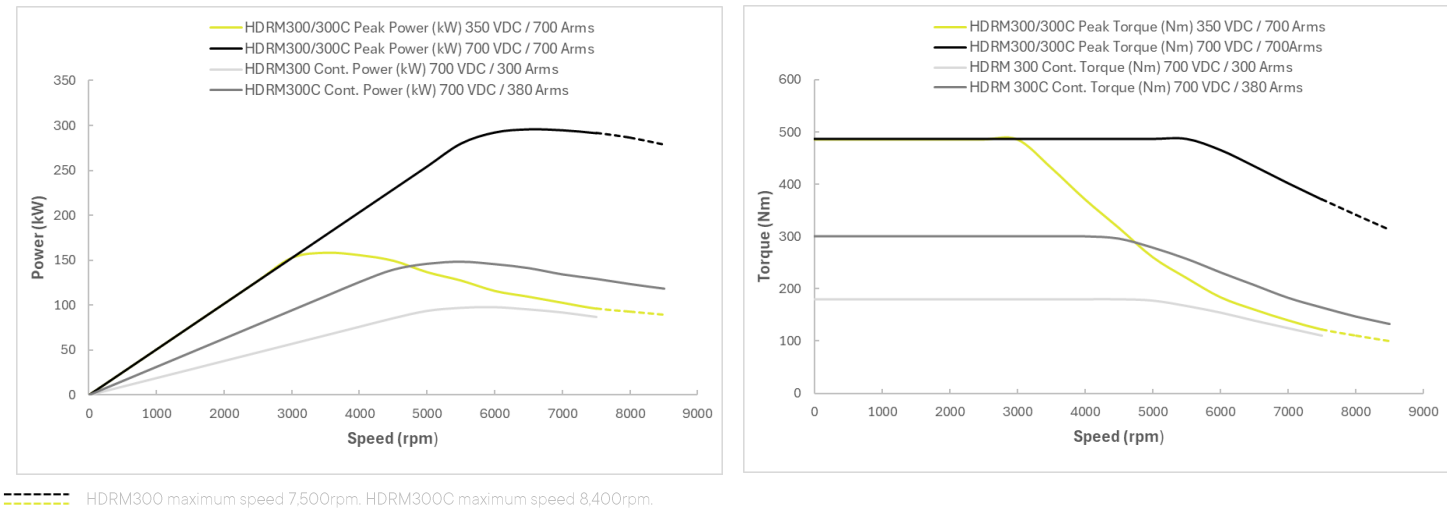


Advanced Electric Machines reserves the right to change or modify product specifications, configurations, or dimensions at any time without notice.

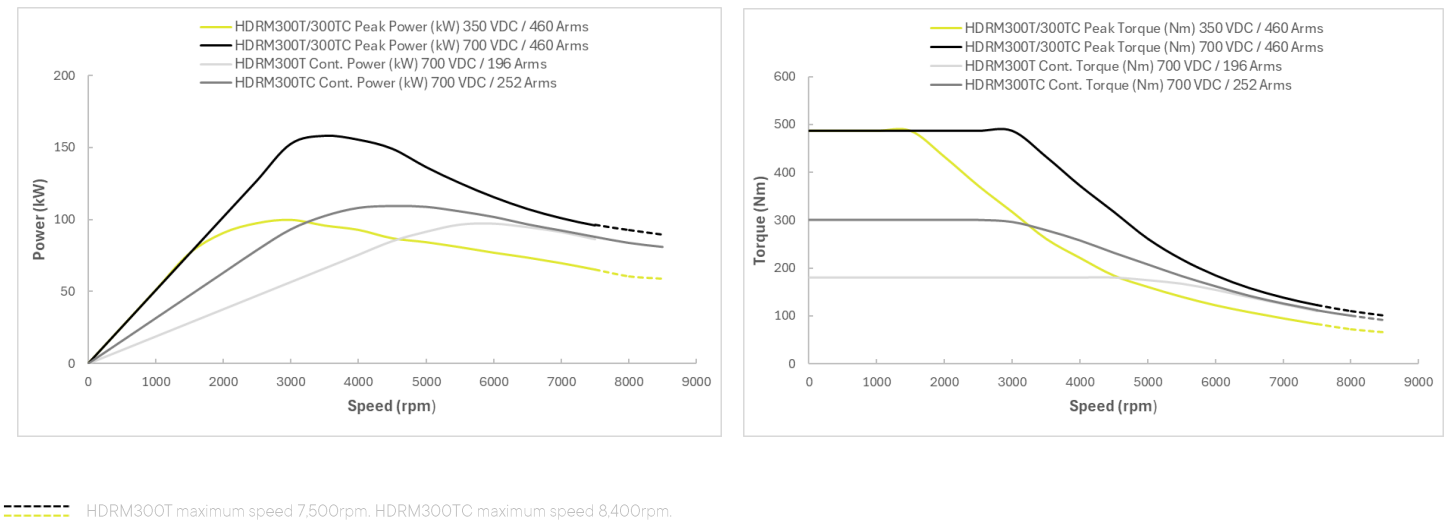
Performance

	HDRM™300	HDRM™300T	HDRM™300C	HDRM™300TC
Peak Power	295 kW (at 6,500rpm)	160 kW (at 4,000rpm)	295 kW (at 6,500rpm)	160 kW (at 4,000rpm)
Continuous Power	98 kW	98 kW	150 kW	110 kW
Peak Torque	485 Nm	485 Nm	485 Nm	485 Nm
Continuous Torque	180 Nm	180 Nm	300 Nm	300 Nm
Max. Speed	7,500 rpm	7,500 rpm	8,400 rpm	8,400 rpm
Weight	82 kg	82 kg	88 kg	88 kg
Cooling	Water / Glycol	Water / Glycol	Water / Glycol	Water / Glycol

HDRM™ 300 and HDRM™ 300C



HDRM™ 300T and HDRM™ 300TC



Notes: HDRM™300/C: data based on 700 Arms Peak current, 300/380 Arms Continuous current. Peak performance at 700 VDC. Continuous performance from 350 VDC. Continuous power with 37degC coolant.

HDRM™300T/TC: data based on 460 Arms Peak current, 196/252 Arms Continuous current. Improved peak performance possible with higher current inverter. Peak performance at 700 VDC. Continuous performance from 500 VDC. Continuous power with 37degC coolant.

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