

Turntide Axial Flux Motor 340

MODEL: AF340

Features

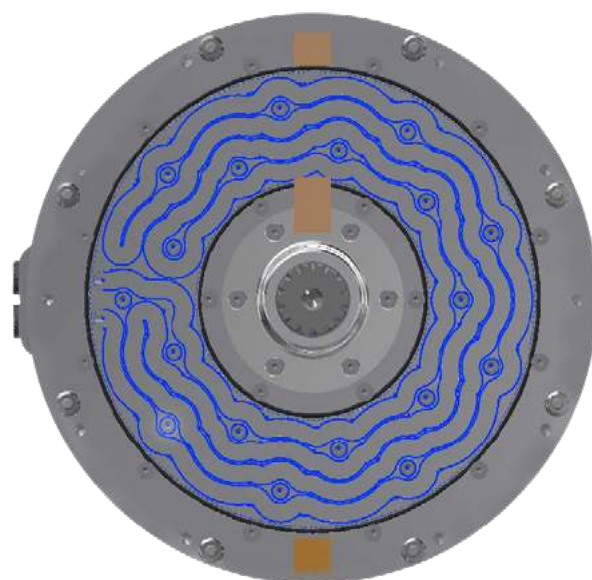
- + Primary Powertrain Traction Motor or Generator
- + Peak Efficiency >95%
- + Excellent power and torque density
- + Low cogging and low ripple torque gives a smooth, quiet operation in direct drive applications
- + Compact design with flat front and back faces for mounting
- + IP67 rated shaft seals (optional)
- + Low inertia 3 x composite rotors with excellent rotor dynamic stability
- + Suitable for inverter supply voltages <800V_{DC}
- + Designed to be driven by two inverters
- + Liquid cooling using water / glycol for enhanced performance
- + Integrated PT100 winding temperature sensors
- + Sin/Cos resolver compatible with most commercially available inverters

Specifications at 600V_{DC}^{††}

Model	AF340
Maximum Speed (rpm)	5000
Continuous Torque (Nm)	780
Peak Torque** (Nm)	1800
Nominal Output Power (kW)	282
Peak Output Power** (kW)	660
Recommended Coolant Flow Rate (LPM)	24
Weight (kg)	122



Turntide AF340 (with shaft seal)



Stator Coolant Path

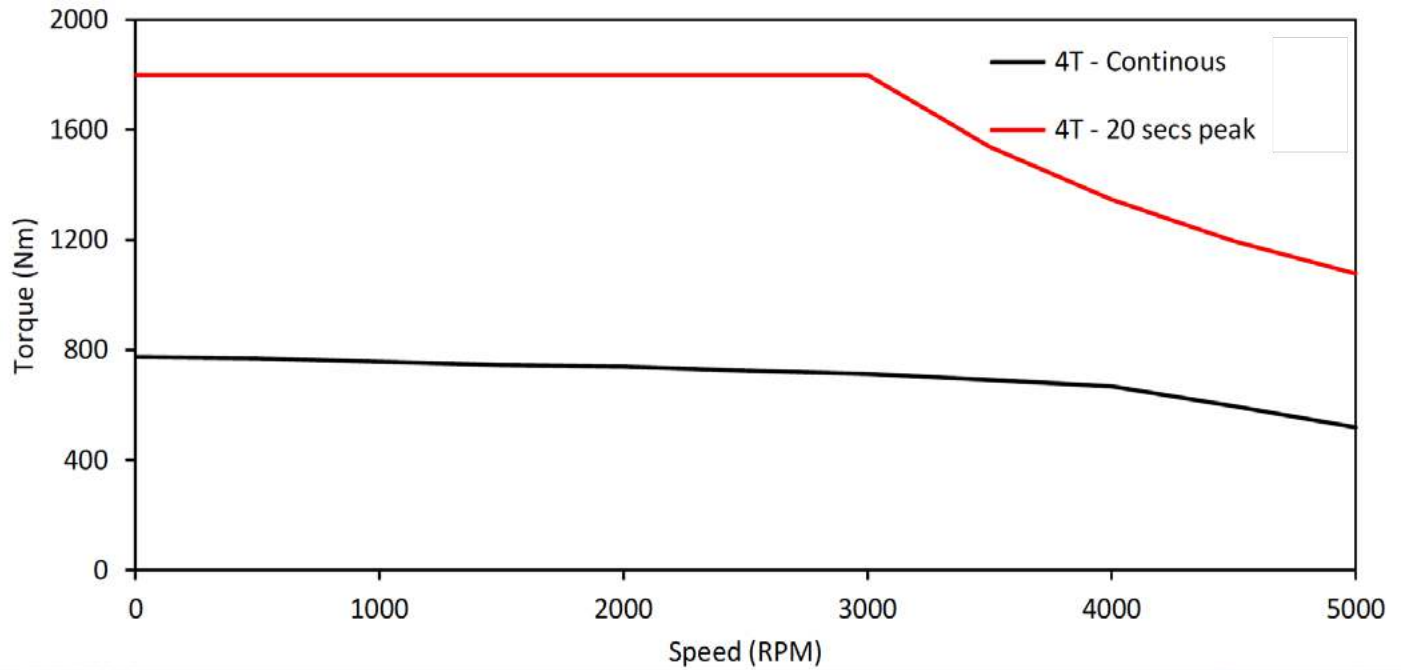
** For up to 20s test conditions

††All values in table are quoted for 45°C ambient with coolant at 55°C inlet temperature and 24 LPM flow rate. Higher coolant temperature possible, please contact electrificationsales@turntide.com



For further information please contact our team of experts at electrificationsales@turntide.com

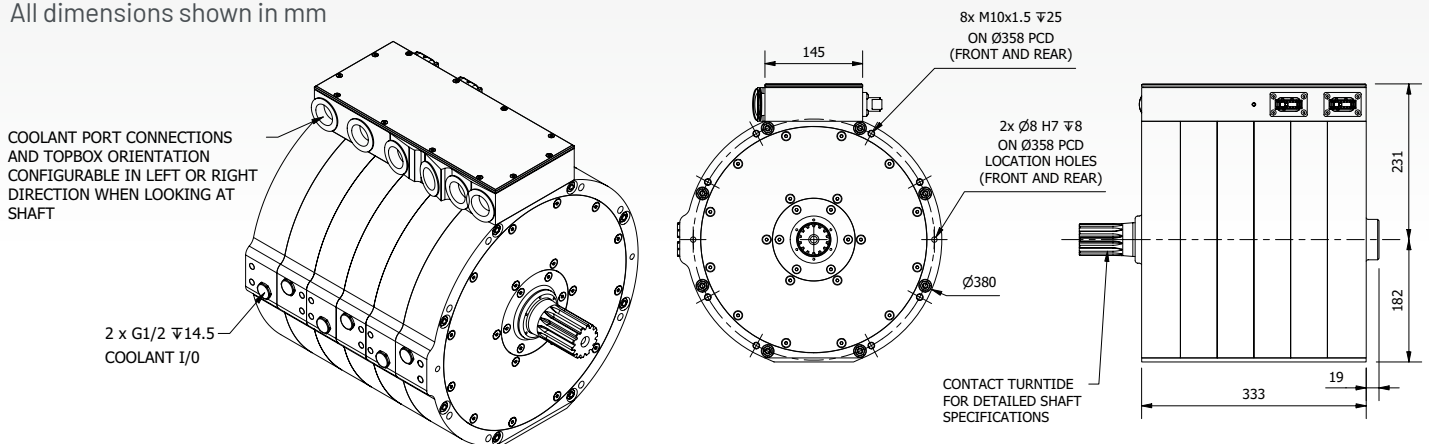
4 Turn - 650 VDC



All values in graphs are quoted for 45°C ambient with coolant at 55°C inlet temperature and 24 LPM flow rate.
Efficiency will vary based on Voltages and Turn count

Dimensions

All dimensions shown in mm



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