

DATASHEET



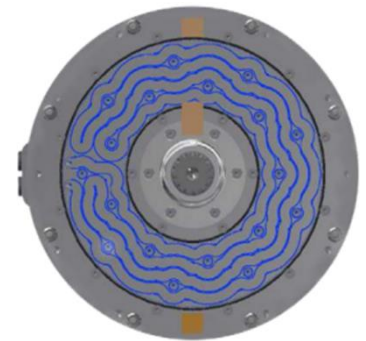
Turntide Axial Flux Motor 340 (AF340)

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 up to 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



Turntide AF340 (with shaft seal)



Stator Coolant Path

Specifications (600V_{DC}^{††})

Characteristics

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

** 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, contact Turntide for higher temperature ratings.

