

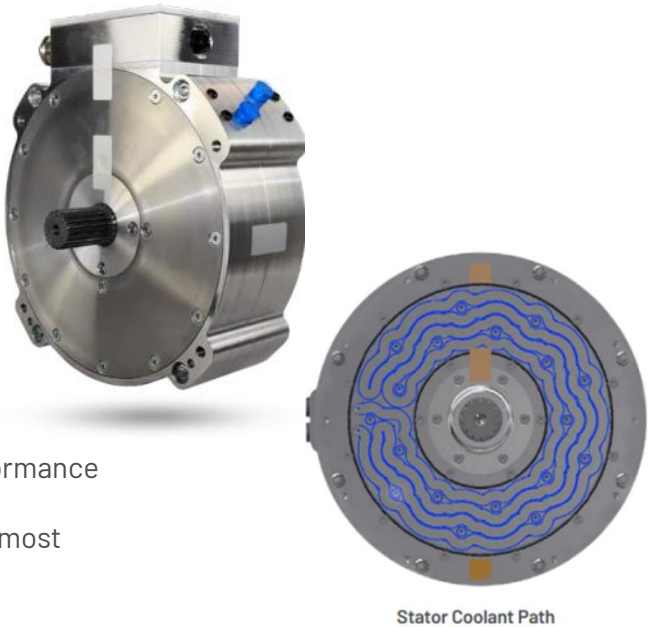
DATASHEET



Turntide Axial Flux Motor 130 (AF130)

Features

- Short motor length resulting from axial flux design
- Very high power density of 4.6 kW/kg*
- Peak Efficiency >95%
- Low cogging and low ripple torque gives smooth, Quiet operation in direct drive applications
- Compact design with flat front and back faces for mounting
- IP67 rated shaft seals (optional)
- Low inertia composite rotor with excellent dynamic
- Suitable for inverter supply voltages up to 800V_{DC}
- Liquid cooling using water / glycol for enhanced performance
- Integrated PT100 winding temperature sensors
- Sin/Cos resolver for out of the box compatibility with most commercially available inverters



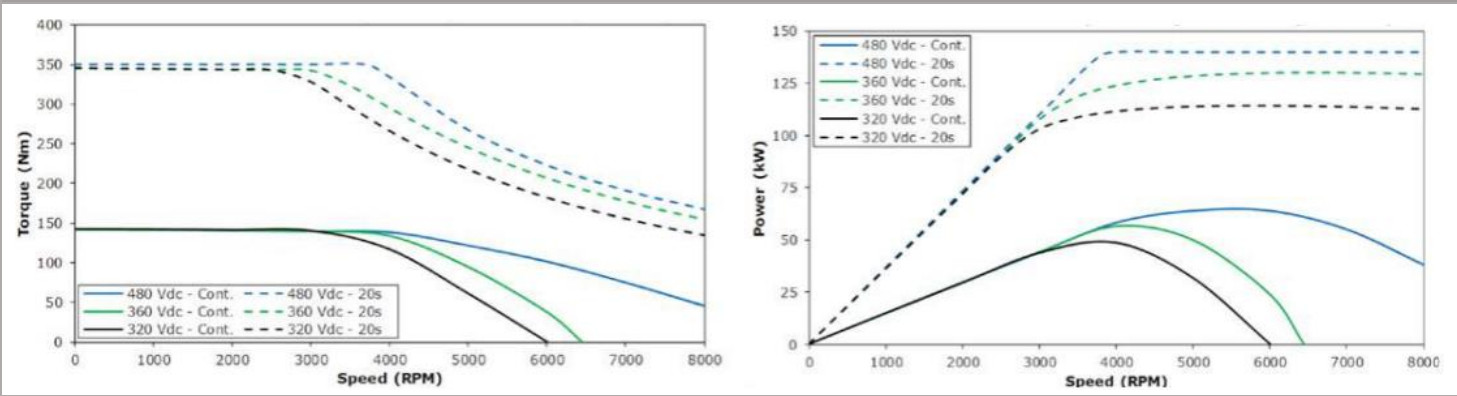
Specifications (600V_{DC}^{††})

Characteristics			
Maximum Speed (rpm)	8000	Continuous Torque (Nm)	145
Peak Torque** (Nm)	350	Nominal Output Power (kW)	64
Recommended Coolant Flow Rate (LPM)	8	Peak Output Power** (kW)	140

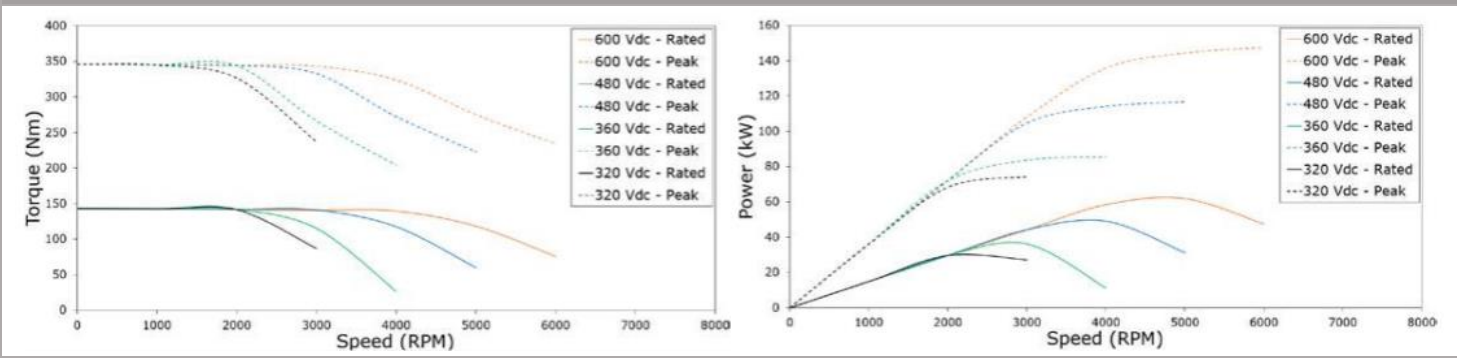
** For up to 20s test conditions
†† All values in table are quoted for 45°C ambient with coolant at 55°C inlet temperature and 8 LPM flow rate, contact Turntide for higher temperature ratings.

Power & Torque Curves

4 Turn - Continuous (135 Arms) and 20s Peak (330 Arms)



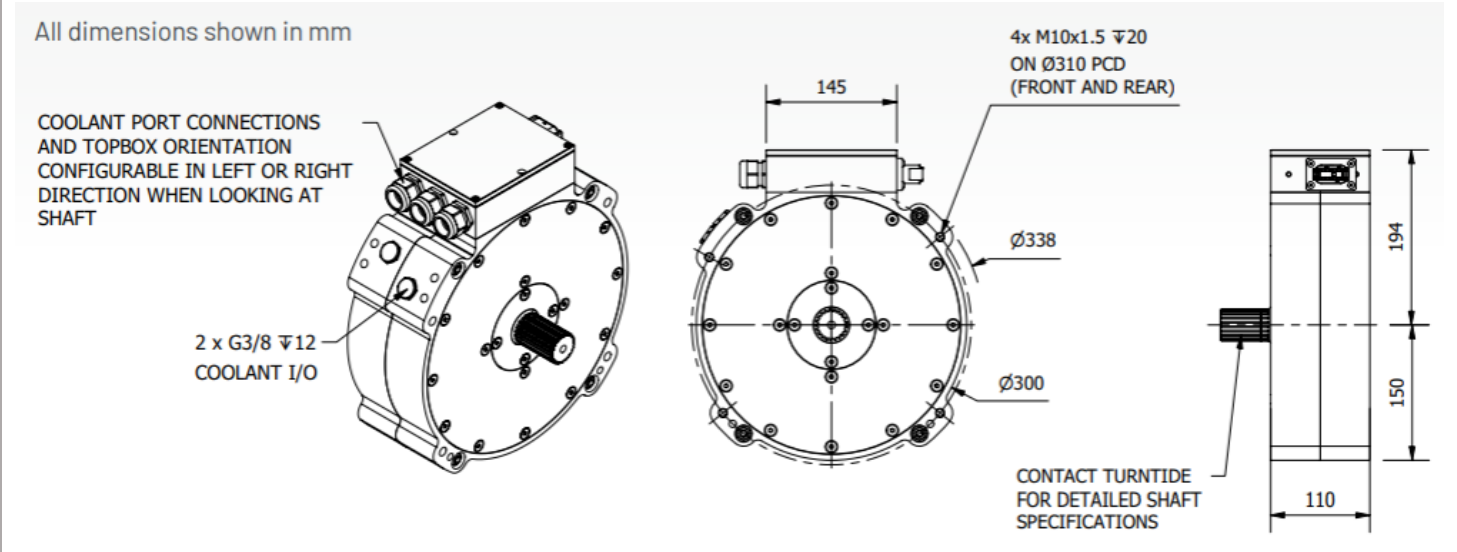
6 Turn - Continuous (95 Arms) and 20s Peak (225 Arms)



Weight & Dimensions

Weight (kg)*	30	Height (mm)	344
Depth (mm)	110	Diameter (mm)	300

*Weight as delivered dry



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

TURNTIDE TECHNOLOGIES

Our breakthrough technologies accelerate electrification and sustainable operations for energy-intensive industries

Turntide Technologies | 1295 Forgewood Avenue, Sunnyvale, CA 94089

turntide.com | electrificationsales@turntide.com

