

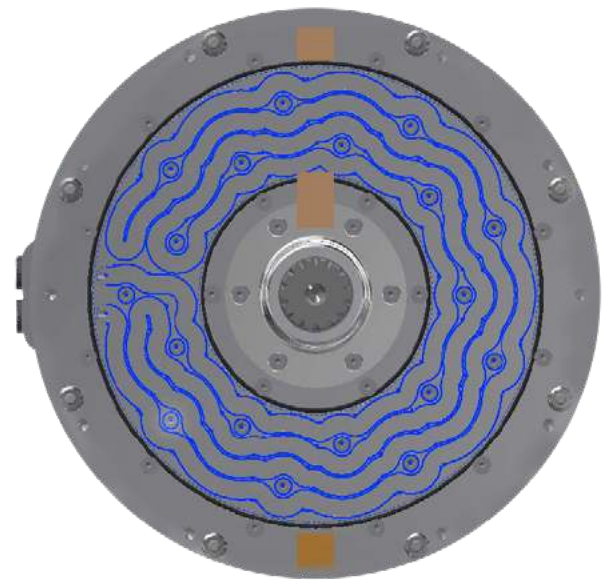
Turntide Axial Flux Motor 230

MODEL: AF230



Features

- + Short motor length resulting from axial flux design
- + Very high power density of 4.9 kW/kg*
- + Available configured for either one or two inverters
- + 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 stability
- + Suitable for inverter supply voltages up to 800 V_{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
- + Standard with 21 spline shaft 1.375"
- + Single and dual inverter variants available



Stator Coolant Path

Specifications at 600V_{DC} ††

Model	AF230
Maximum Speed (rpm)	8000
Continuous Torque (Nm)	290
Peak Torque** (Nm)	700
Nominal Output Power (kW)	128
Peak Output Power** (kW)	280
Recommended Coolant Flow Rate (LPM)	16
Weight (kg)	58

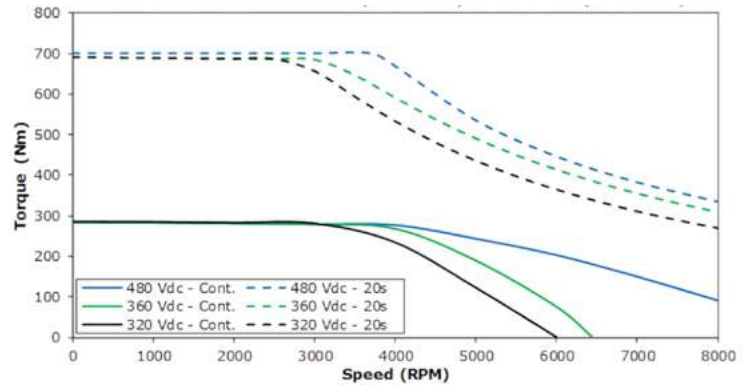
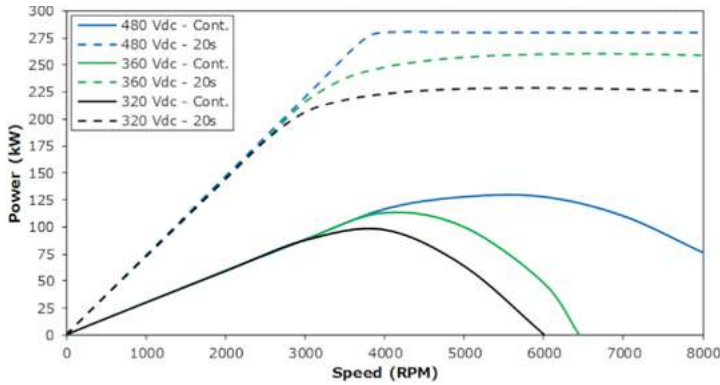
* Weight as delivered dry

** For up to 20s test conditions

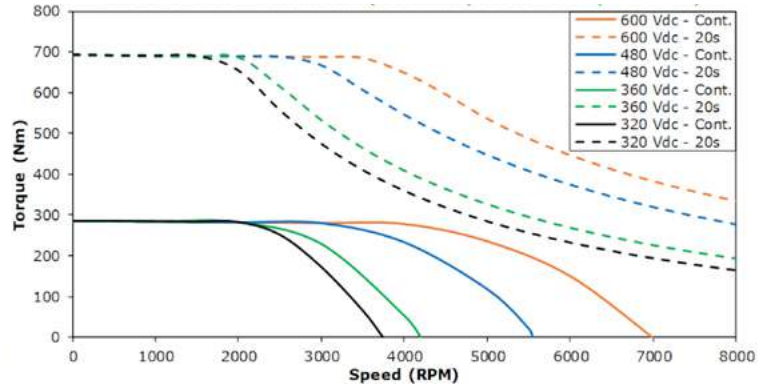
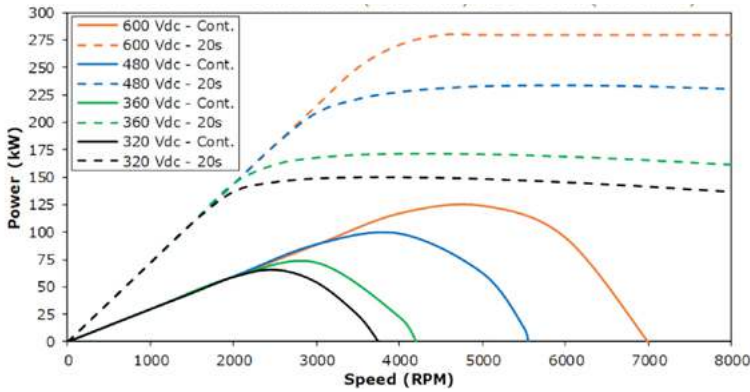
 †† All values in table are quoted for 45°C ambient with coolant at 55°C inlet temperature and 16 LPM flow rate. Higher coolant temperature possible, please contact electrificationsales@turntide.com

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

4 Turn - Continuous (270 Arms) and 20s Peak (660 Arms)



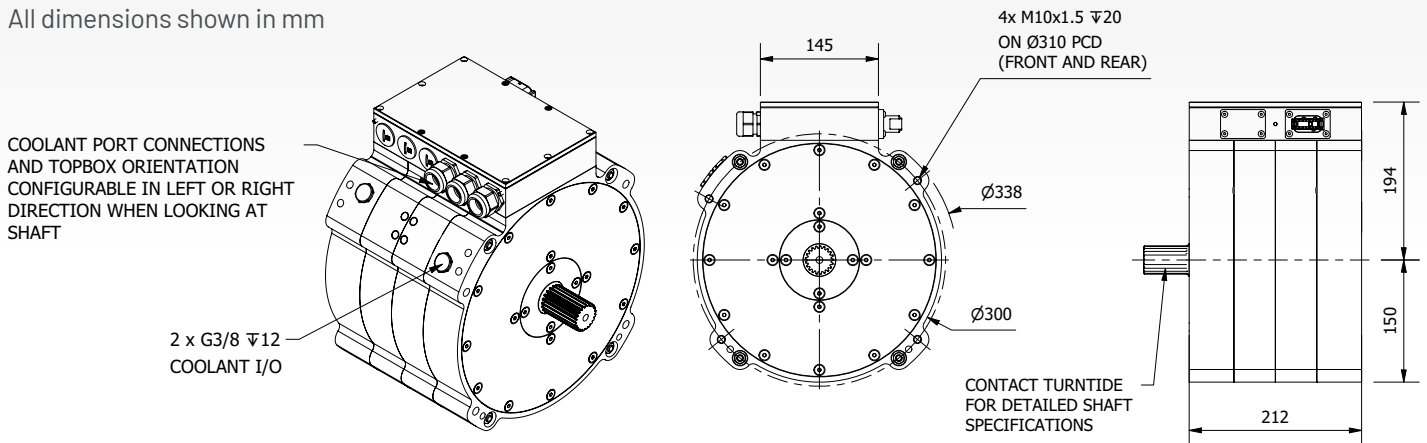
6 Turn - Continuous (180 Arms) and 20s Peak (440 Arms)



All values in graphs are quoted for 45°C ambient with coolant at 55°C inlet temperature and 16 LPM flow rate.
Efficiency will vary based on Voltages and Turn count

Dimensions

All dimensions shown in mm



TURNTIDE TECHNOLOGIES

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