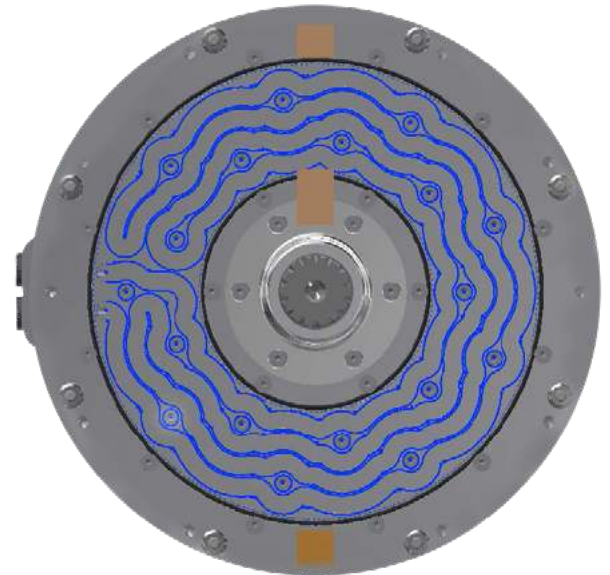


Turntide Axial Flux Motor 240

MODEL: AF240

Features

- + Short motor length resulting from axial flux design
- + Very high power density of 5.4 kW/kg*
- + Peak Efficiency >95%
- + Low inertia composite rotor with excellent dynamic stability
- + 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)
- + 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
- + Suitable for inverter supply voltages up to 800 V_{DC}
- + Standard with 28 spline shaft 1.375"
- + Single and dual inverter variants available



Stator Coolant Path

Specifications at 600V_{DC} ††

Model	AF240
Maximum Speed (rpm)	5000
Continuous Torque (Nm)	520
Peak Torque** (Nm)	1200
Nominal Output Power (kW)	188
Peak Output Power** (kW)	440
Recommended Coolant Flow Rate (LPM)	16
Weight (kg)	82

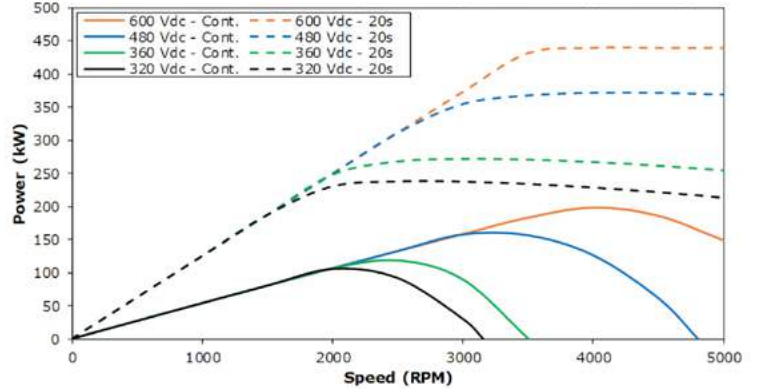
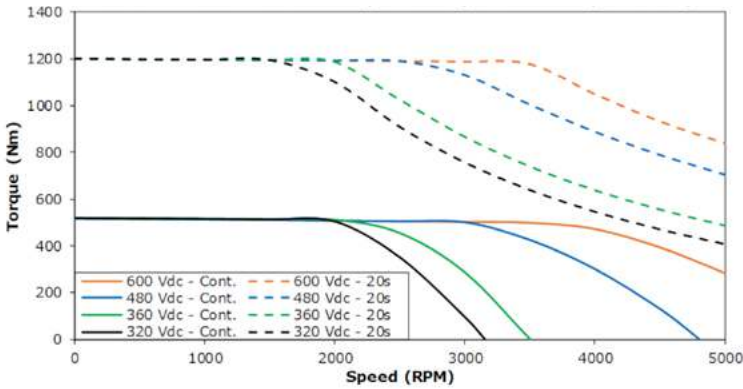
* Weight as delivered dry

** For up to 20s test conditions

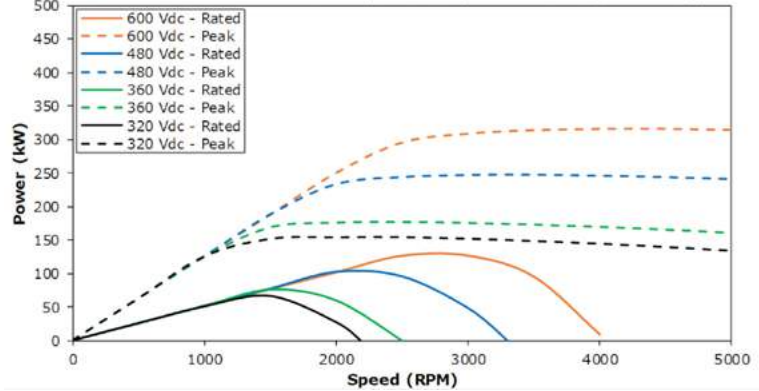
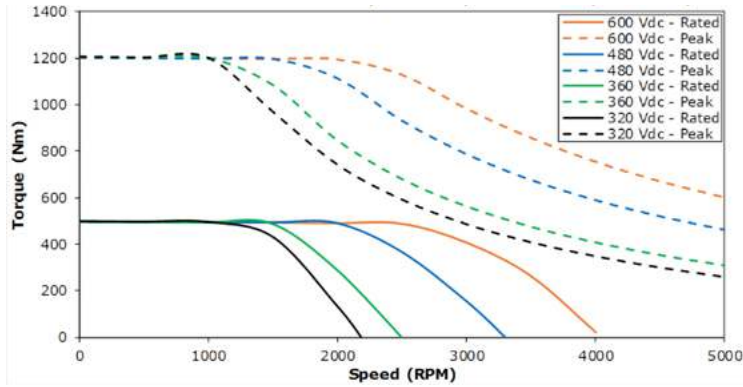
 †† All values in table are quoted for 45°C ambient with coolant at 55°C inlet temperature and 16 LPM flow rate. Higher coolant temperature possible, please contact electrificationsales@turntide.com

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

4 Turn - Continuous (290 Arms) and 20s Peak (700 Arms)



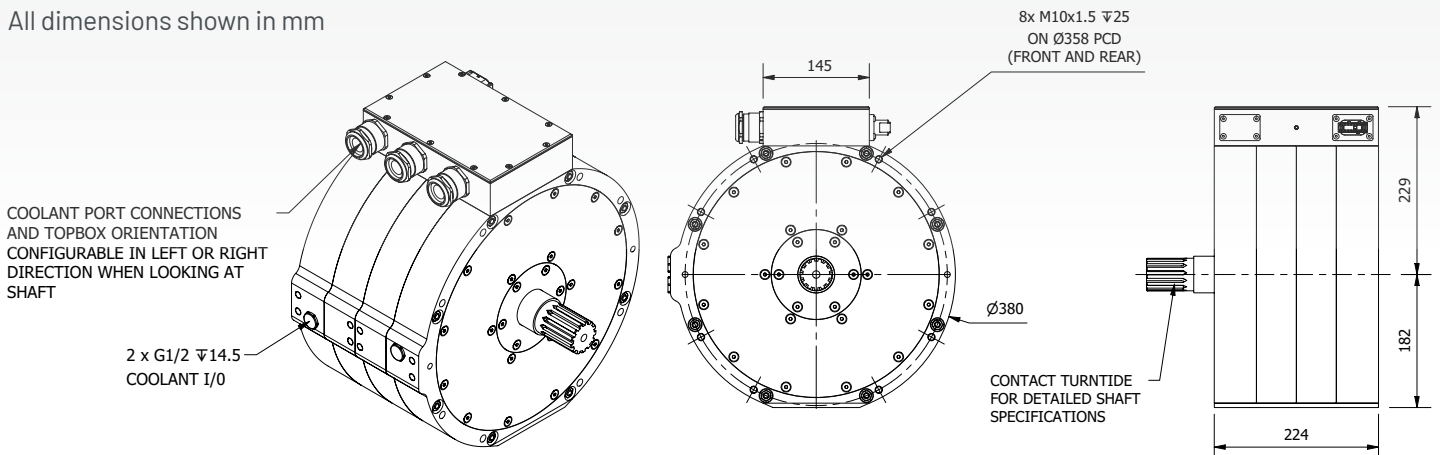
6 Turn - Continuous (190 Arms) and 20s Peak (480 Arms)



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