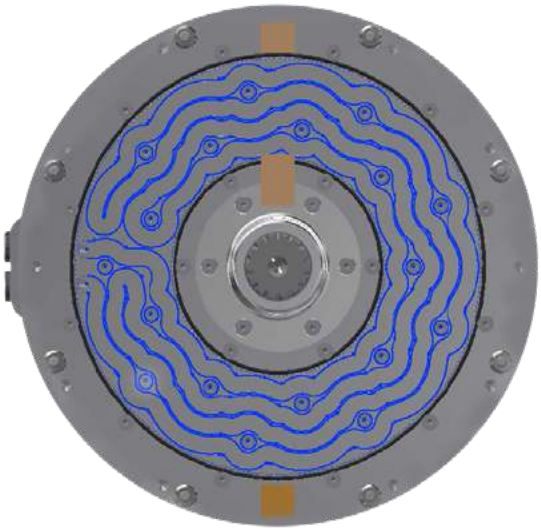
DATASHEET

Turntide Axial Flux Motor 130

MODEL: 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 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"



Stator Coolant Path

Specifications at 600V_{DC} ††

Model	AF130
Maximum Speed (rpm)	8000
Continuous Torque	145
Peak Torque (Nm)**	350
Nominal Output Power (kW)	64
Peak Output Power (kW)**	140
Recommended Coolant Flow Rate (LPM)	8
Weight (kg)	30

* Weight as delivered dry

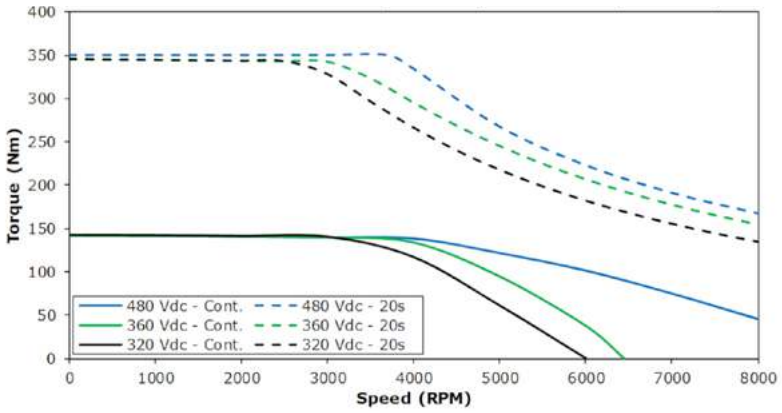
** For up to 20s test conditions

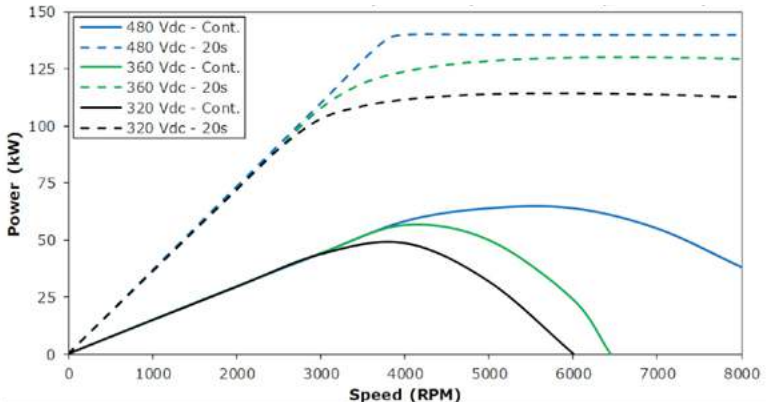
††All values in table are quoted for 45°C ambient with coolant at 55°C inlet temperature and 8 LPM flow rate. Higher coolant temperature possible, please contact electrificationsales@turntide.com

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

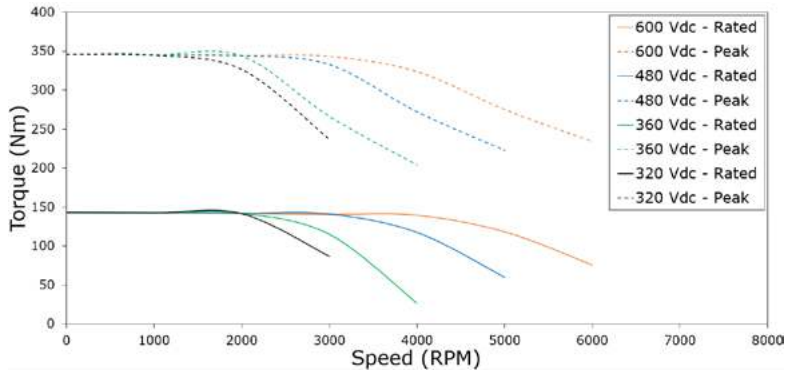
Details are correct at time of publishing

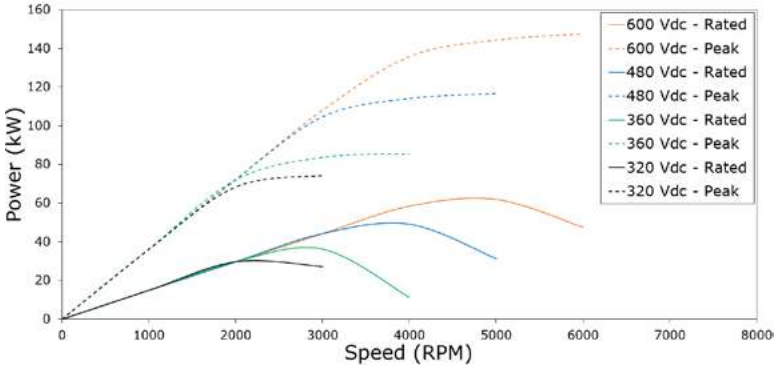
4 Turn – Continuous (135 Arms) and 20s Peak (330 Arms)





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

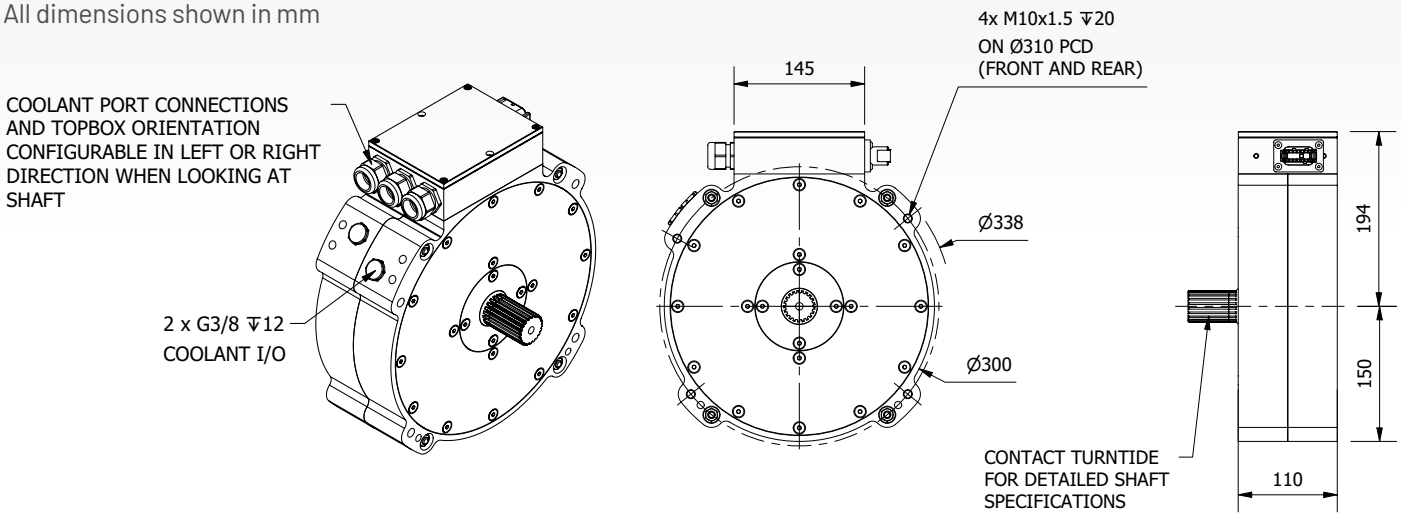




All values in graphs are quoted for 45°C ambient with coolant at 55°C inlet temperature and 8 LPM flow rate.
Efficiency will vary based on Voltages and Turn count

Dimensions

All dimensions shown in mm



TURNTIDE TECHNOLOGIES

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

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