

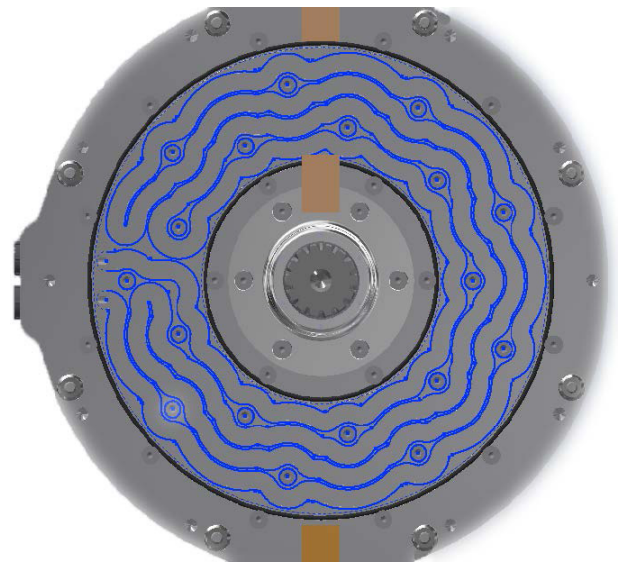
# EVO Axial Flux Electric Motor AF440 Model

## Features

- + Primary Powertrain Traction Motor or Generator
- + >95% efficiency
- + Excellent power and torque density
- + Low cogging and low ripple torque gives a smooth, quiet operation in direct drive applications
- + Low inertia 4 x composite rotors with excellent rotor dynamic stability
- + Suitable for inverter supply voltages <800VDC
- + Designed to be driven by two inverters
- + Liquid cooling for enhanced performance, using water/glycol for simplified system integration
- + Integrated PT100 temperature sensors and sin/ cos resolver compatible with most commercially available inverters
- + IP.67 environmental protection



**Stator Coolant Path**

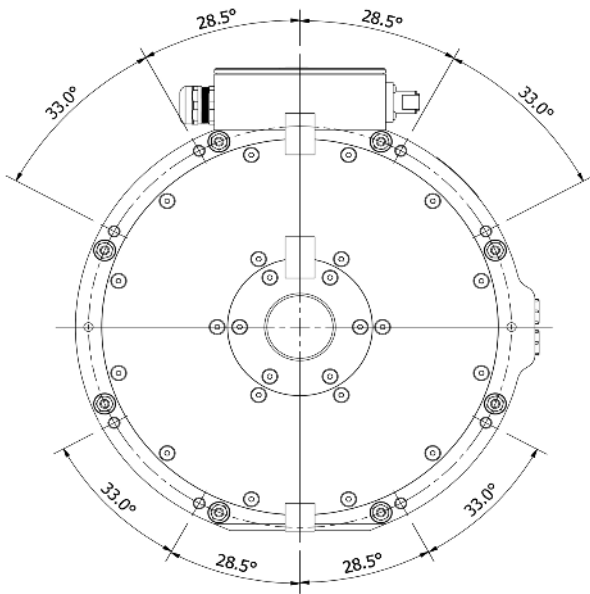


## Specifications at 600V<sub>DC</sub><sup>††</sup>

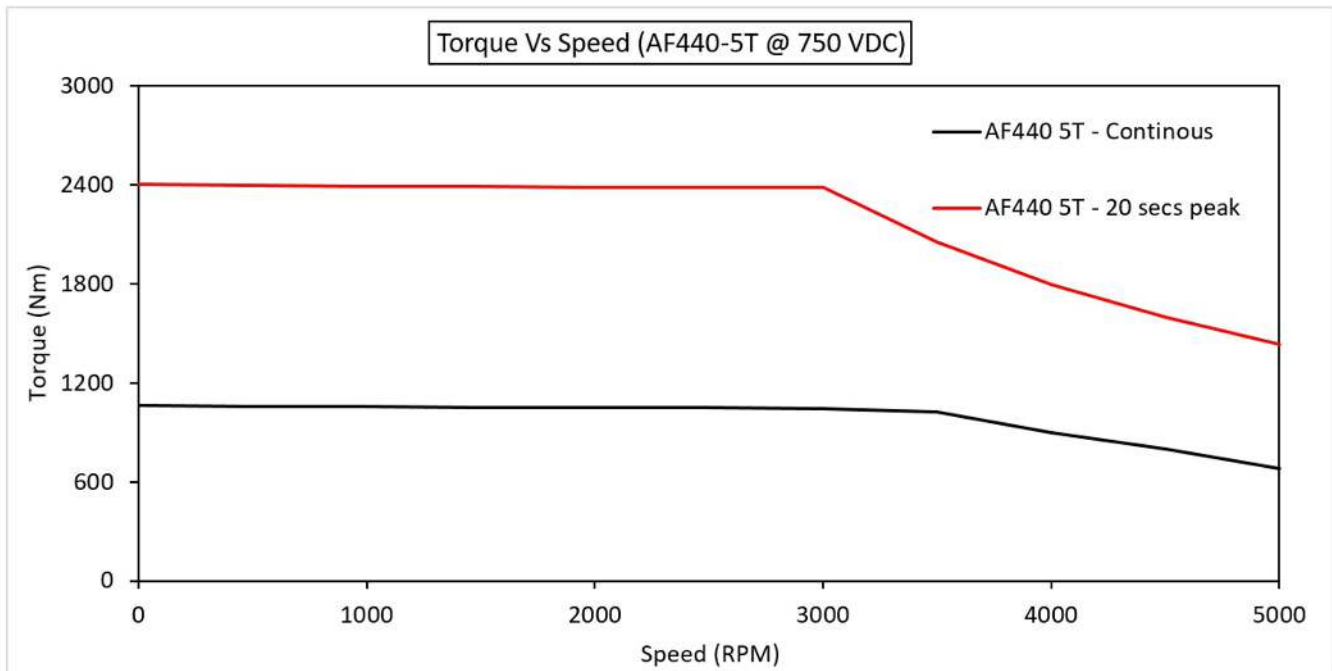
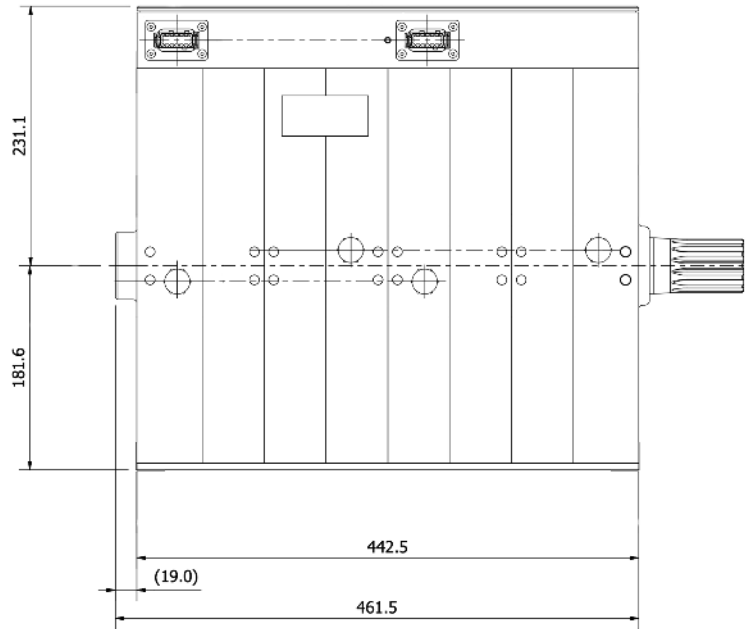
PM Synchronous Axial Flux Motors	AF 440
Maximum Speed (rpm)	5000
Nominal Torque (Nm)	1040
Peak Torque - for up to 60s (Nm)	1600
Peak Torque - for up to 20s (Nm)	2400
Nominal Output Power (kW)	376
Peak Output Power - for up to 60s (kW)	660
Peak Output Power - for up to 20s (kW)	880
Coolant Flow Rate (litre/min)	8-12
Length (mm)	443
Diameter (mm)	380
Weight (kg)	160

Please contact [sales@turntide.com](mailto:sales@turntide.com) for details on our bespoke design service.

<sup>††</sup>All values in table are quoted for 45°C ambient with coolant at 55°C inlet temperature and 8l/min flow rate.



All dimensions shown in mm



All graphs show performance when operating in 45°C Amb, coolant at 55°C inlet temperature and 8l/min flow rate.

Details correct at time of printing October 2020

Performance data subject to change without notice (Contact Turntide Technologies for latest)

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