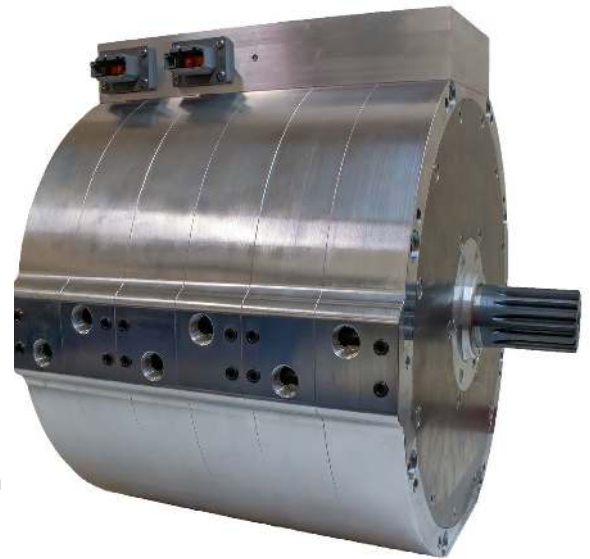


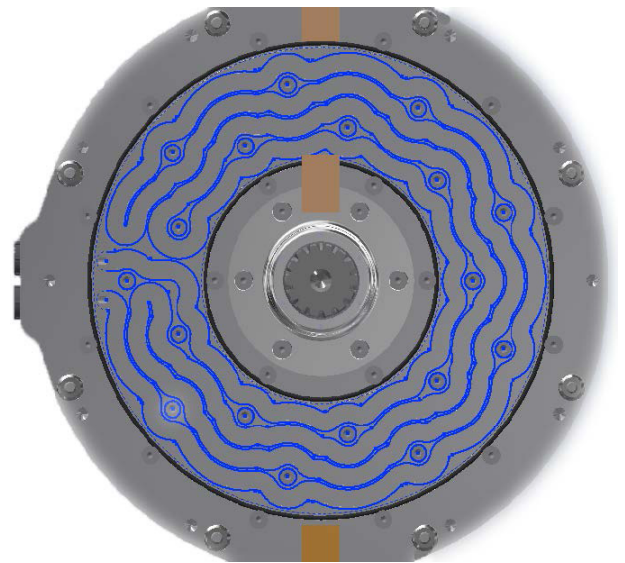
EVO Axial Flux Electric Motor AF340 Model

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 3 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

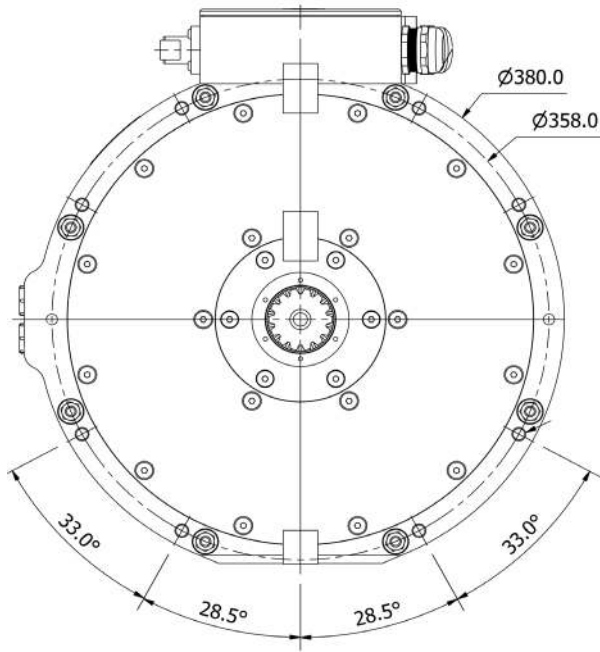


Specifications at 600V_{DC}^{††}

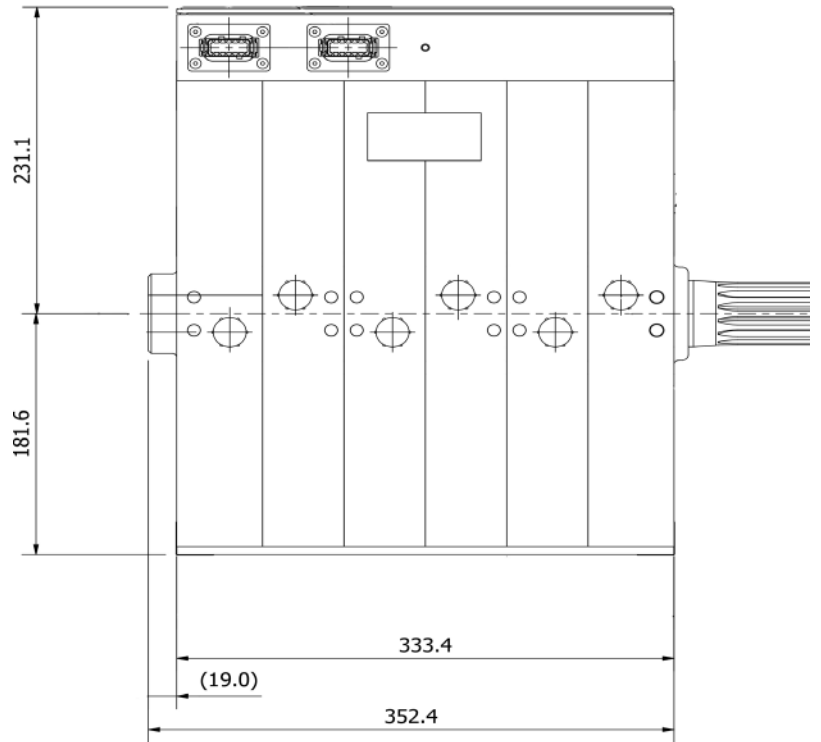
PM Synchronous Axial Flux Motors	AF 340
Maximum Speed (rpm)	5000
Nominal Torque (Nm)	780
Peak Torque - for up to 60s (Nm)	1200
Peak Torque - for up to 20s (Nm)	1800
Nominal Output Power (kW)	282
Peak Output Power - for up to 60s (kW)	450
Peak Output Power - for up to 20s (kW)	660
Coolant Flow Rate (litre/min)	8-12
Length (mm)	333.4
Diameter (mm)	380
Weight (kg)	122

Please contact sales@turntide.com for details on our bespoke design service.

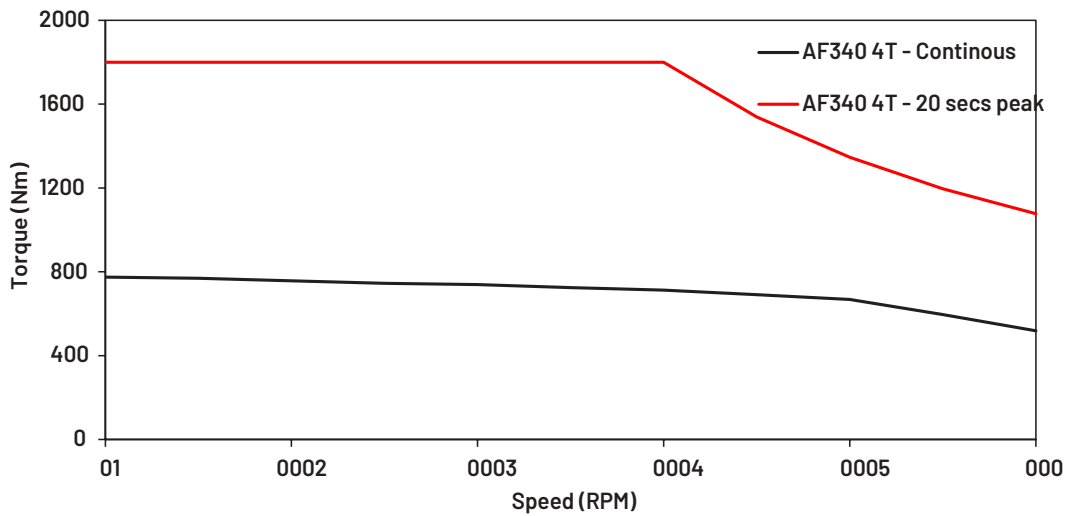
^{††}All values in table are quoted for 45°C ambient with coolant at 55°C inlet temperature and 8l/min flow rate.



All dimensions shown in mm



Torque Vs Speed (AF340 4T @ 650 Vdc)



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 March 2020

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

TURNTIDE TECHNOLOGY FOR SUSTAINABLE OPERATIONS

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