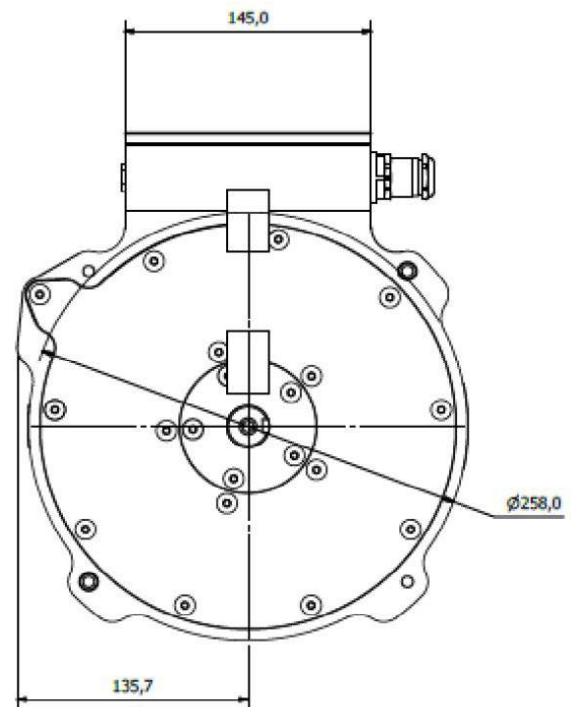


EVO Axial Flux Electric Motor AF125 Model

Features

- + Very high torque and power density, 4.5kW/kg* off the shelf and >10kW/kg achievable in custom applications.†
- + >95% efficiency.
- + Low cogging and low ripple torque gives smooth, quiet operation in direct drive applications.
- + Low inertia composite rotor with excellent dynamic stability.
- + Suitable for inverter supply voltages up to 800VDC.
- + Compact design with flat front & back faces for mounting.
- + Liquid cooling for enhanced performance, using water/glycol for simplified system integration.
- + Integrated PT100 temperature sensors and sin/cos resolver for out of the box compatibility with most commercially available inverters.
- + Through shaft and customised versions available.‡



Specifications at 600V_{DC} ††

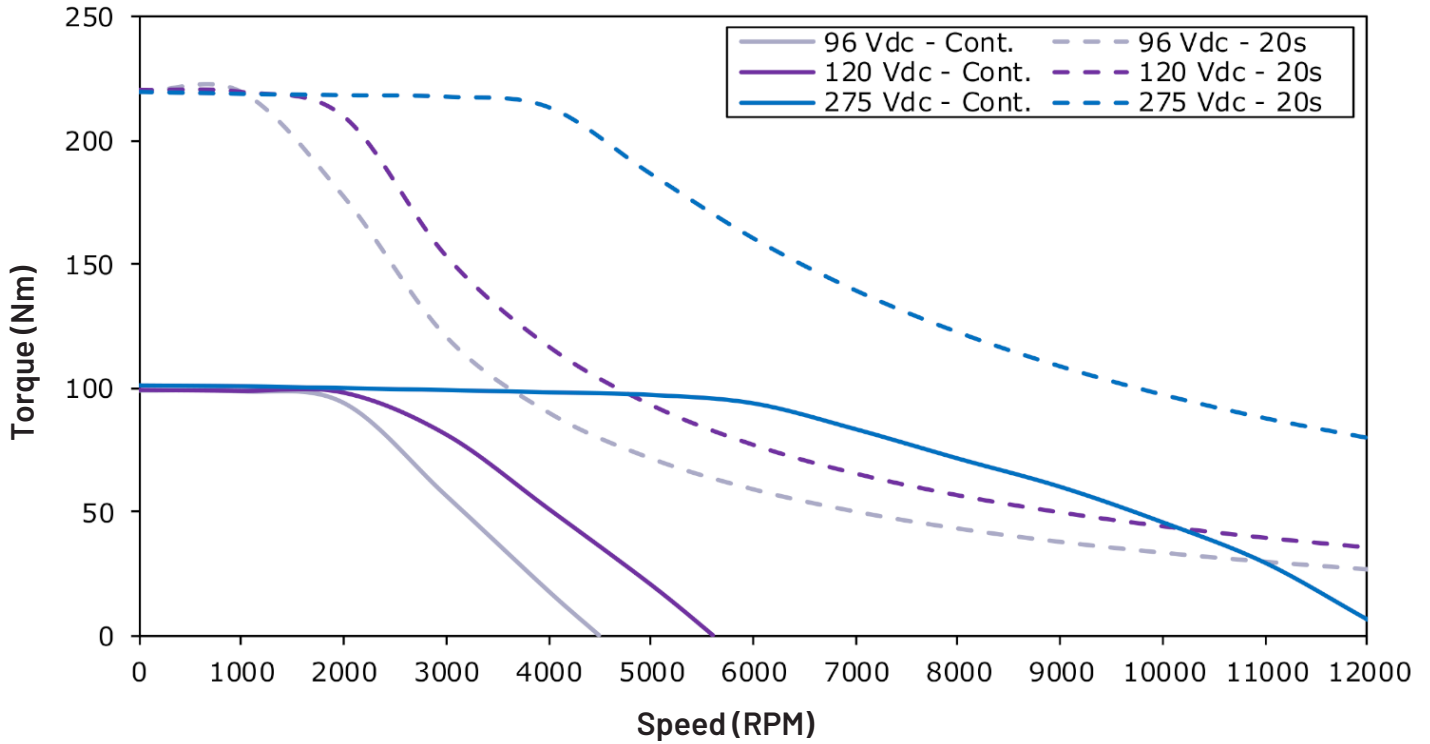
PM Synchronous Axial Flux Motors	AF 125
Maximum Speed (rpm)	12000
Nominal Torque (Nm)	100
Peak Torque - for up to 60s (Nm)	170
Peak Torque - for up to 20s (Nm)	220
Nominal Output Power (kW)	59
Peak Output Power - for up to 60s (kW)	85
Peak Output Power - for up to 20s (kW)	100
Length (mm)	110
Diameter (mm)	258
Weight (kg)	22

* Weight as delivered (fully dressed, dry)

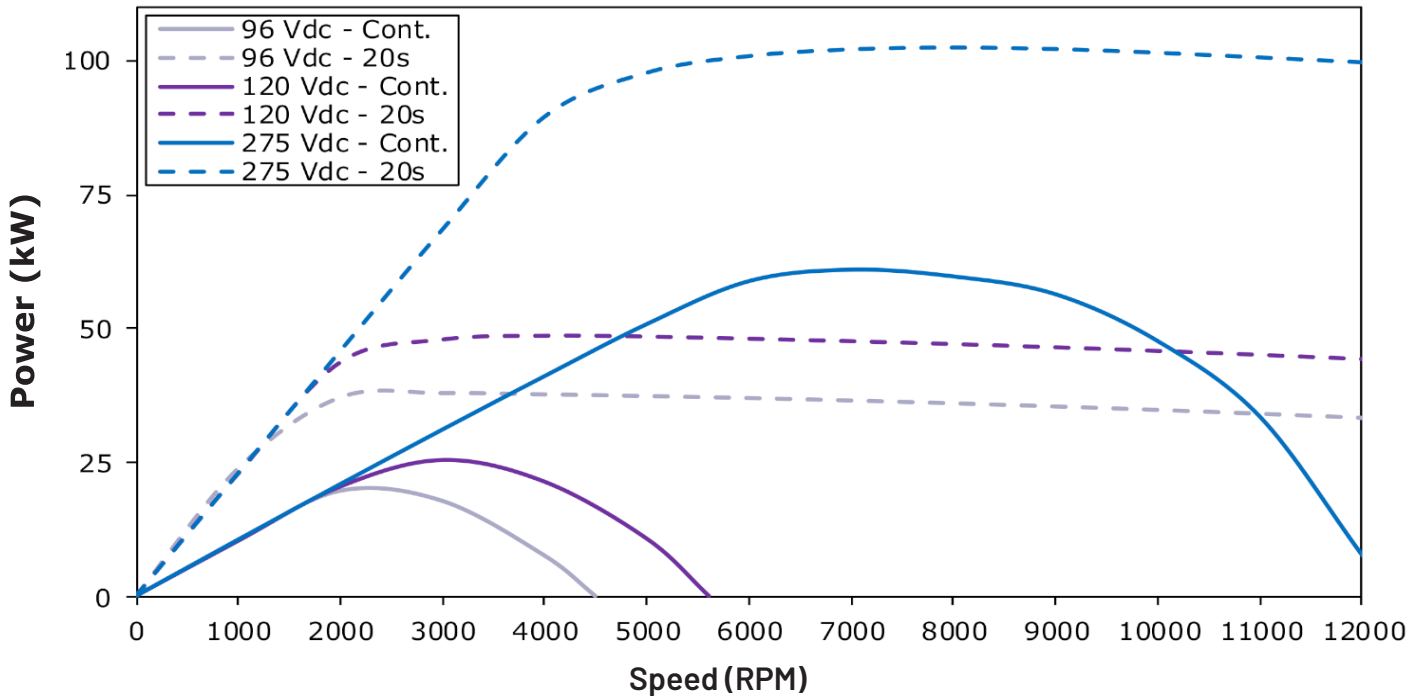
† Please contact sales@turntide.com for details on our bespoke design service.

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

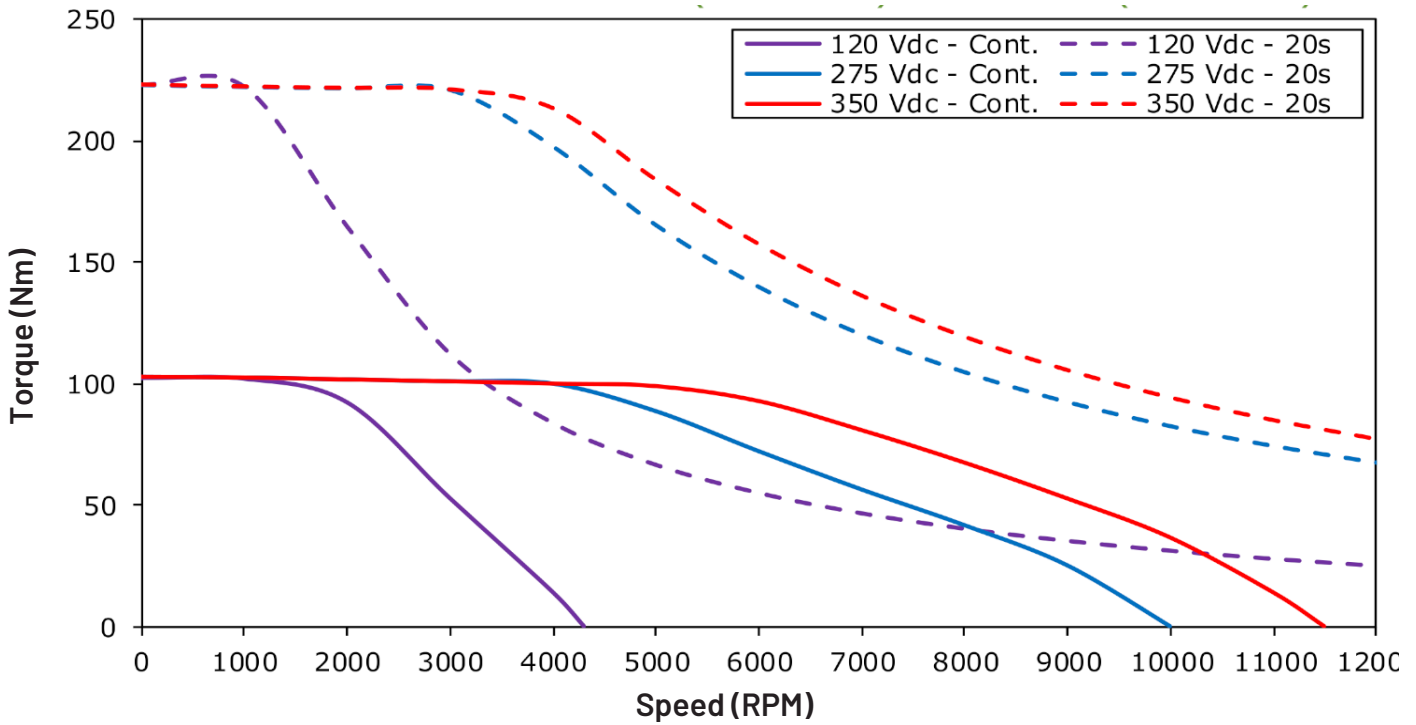
AF125 3 Turn - Continuous (190 Arms) & 20s Peak (420 Arms)



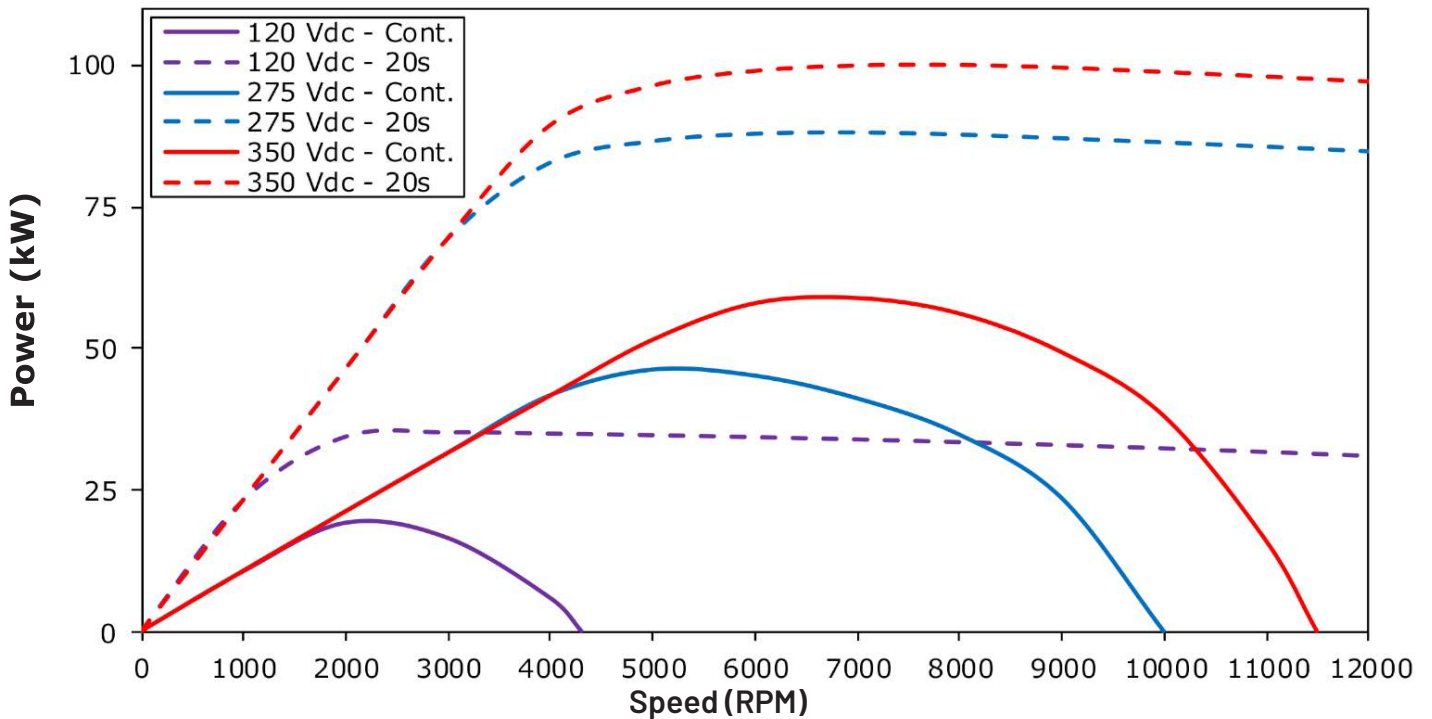
AF125 3 Turn - Continuous (190 Arms) & 20s Peak (420 Arms)



AF125 4 Turn - Continuous (145 Arms) & 20s Peak (320 Arms)



AF125 4 Turn - Continuous (145 Arms) & 20s Peak (320 Arms)



TURNTIDE TECHNOLOGY FOR SUSTAINABLE OPERATIONS

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