

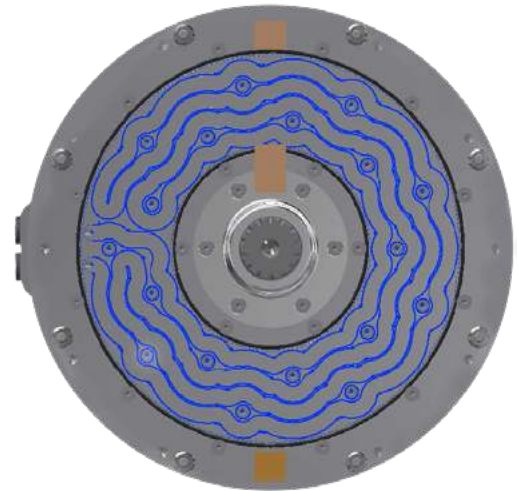
Turntide Axial Flux Motor Range

Turntide offers a range of permanent magnet axial flux motors based on proprietary technology. These innovative motors are perfectly suited to EV or hybrid applications that need high torque and a limited package space.



Features

- + Very high torque and power density
- + Low cogging and low ripple torque
- + Compact design with flat front and back faces for easy mounting
- + Suitable for inverter supply voltages up to $800V_{DC}$
- + Peak Efficiency >95%
- + Low inertia composite rotor with excellent rotor dynamic stability
- + Water glycol liquid cooling for improved heat transfer and enhanced performance
- + Standard variants utilize spline shafts
- + Integrated PT100 temperature sensors in windings
- + Sin/Cos resolver compatible with most commercially available inverters



Stator Coolant Path

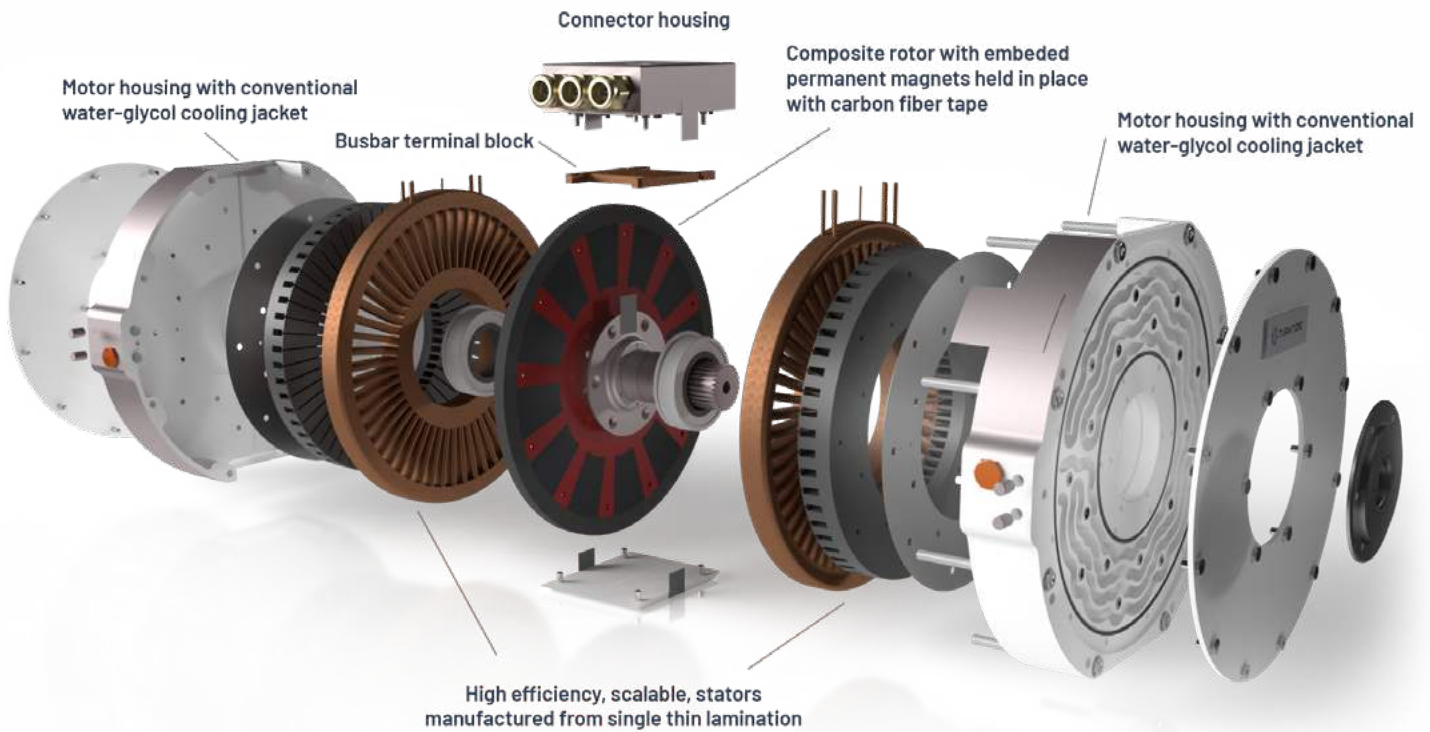
Specifications at $600V_{DC}$

Model	AF125	AF130	AF140	AF230	AF240	AF340	AF440
Maximum Speed (rpm)	12,000	8,000	5,000	8,000	5,000	5,000	5,000
Continuous Torque (Nm)	100	145	260	290	520	780	1,040
Peak Torque (20s)(Nm)	220	350	600	700	1,200	1,800	2,400
Nominal Output Power (kW)	59	64	94	128	188	282	376
Peak Output Power (20s)(kW)	100	140	220	280	440	660	880
Dimensions* LxD (mm)	110x258	110x300	115x380	212x300	212x380	333x380	443x380
Weight** (kg)	22	30	43	58	82	122	160

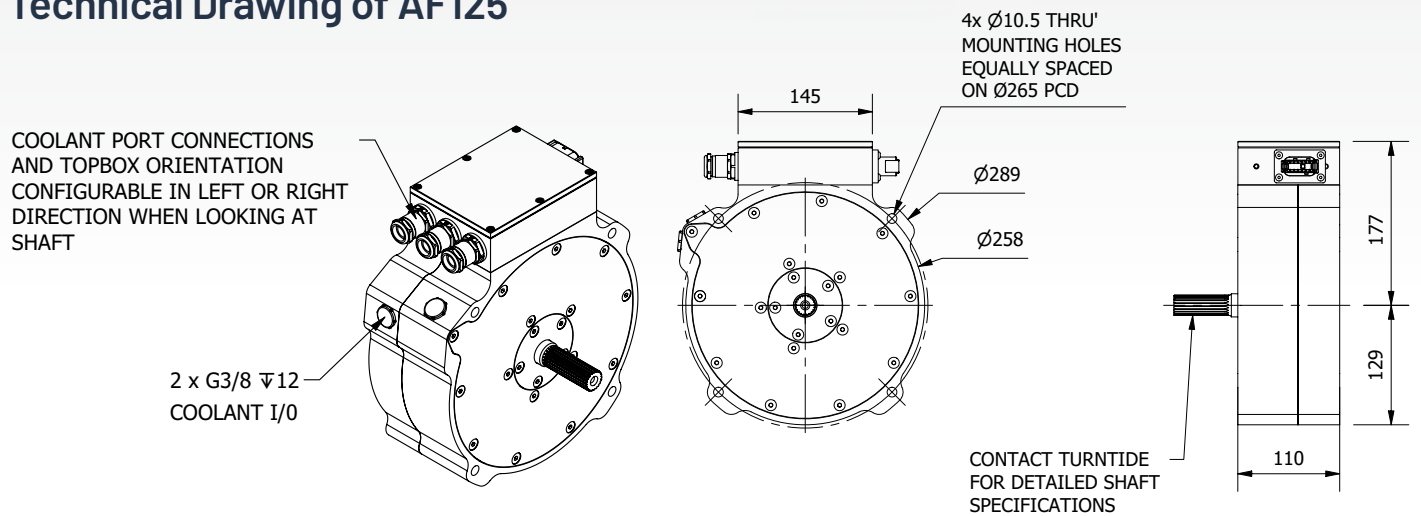
*Reference diameter excludes top connector housing. Please contact electrificationsales@turntide.com for additional information.

** Weight as delivered dry

Expanded Motor



Technical Drawing of AF125



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

Details are correct at time of publishing

TURNTIDE TECHNOLOGIES

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

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