

**DATASHEET**

# 7.3kW Radial Flux Electric Machine

Customer Bespoke radial motor for high performance automotive aero-fan application.

Turntide can produce bespoke radial machines for other high-performance applications. Please contact [electrificationsales@turntide.com](mailto:electrificationsales@turntide.com) for more information.



## Features

- Liquid cooled for enhanced thermal performance
- Sensor-less design
- Validated to ISO-16750 environmental test standards
- High Power Density
- Low Package Size
- Power to weight ratio of 1.87kg/kW

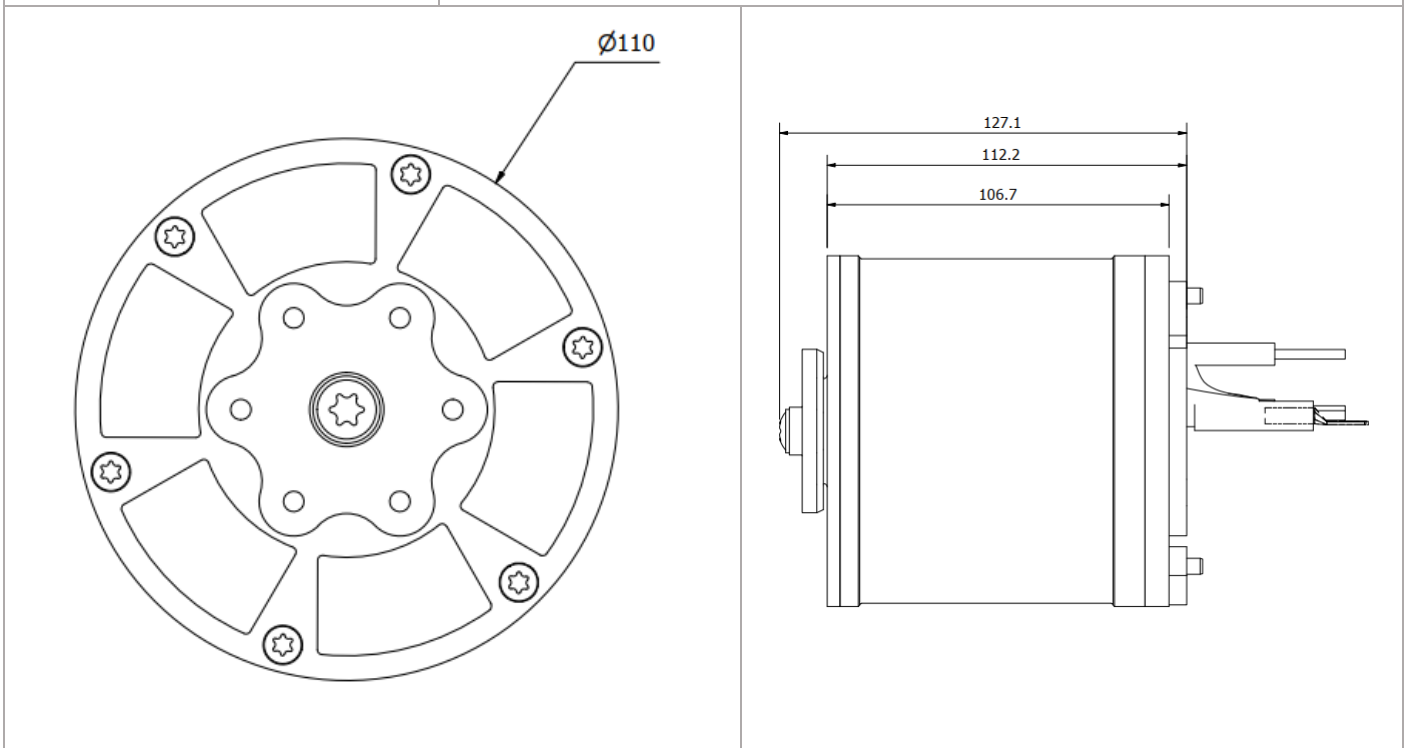
## Specifications

Physical Characteristics			
<b>Housing Material</b>	Aluminium	<b>IP rating</b>	IP 6k9k
Performance			
<b>Rated Power</b>	7.3kW	<b>Coolant inlet temperature range*</b>	-20°C to 75°C
<b>Rated Speed</b>	5900RPM	<b>Ambient temperature range*</b>	-20°C to 81°C
<b>Rated Torque</b>	11.78Nm	<b>Coolant flow rate</b>	7.5 LPM
<b>Peak Motor Efficiency</b>	>93%	<i>* During motor operation</i>	
Electrical Specifications			
<b>Inverter input Voltage</b>	48V DC	<b>Current @ Rated Speed and Torque</b>	172.5A (@48V)

Details are correct at time of publishing

**Weight and Dimensions****Mass**

3.9kg



For further information please contact our team of experts at [electrificationsales@turntide.com](mailto:electrificationsales@turntide.com)

**TURNTIDE TECHNOLOGIES**

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

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