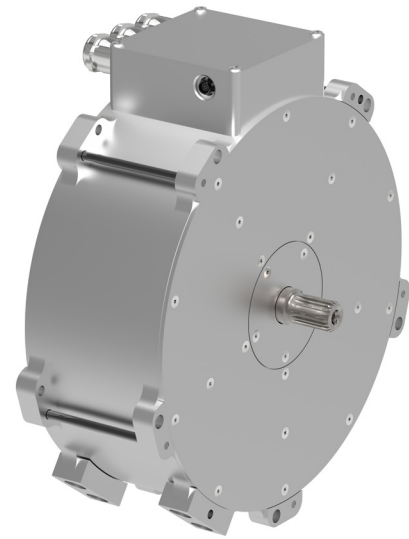


Phi-Power AG is supplying high performance axial flux motors. The machines offer superior power and torque density with low torque-ripple.

Overview

The PHI271 is part of a new generation axial flux permanent magnet motor developed for automotive and industrial applications. The PHI.271 is water cooled as standard and is best used with variable frequency drives running vector control. The motor is equipped with a resolver for position feedback and PT100 temperature sensors. Phi-Power can support customers with the integration of the motor as well as supplying matched motor and inverter pairs. Phi-Power also adapts its technology for specific applications and develops custom machines to suit specific needs.



PHI.271 - Performance Parameters:

Peak Torque (for up to 60s)	240	[Nm]
Nominal Torque	140	[Nm]
Peak Output Power (for up to 60s)	>150	[kW]
Nominal Output Power	90	[kW]
Maximum Speed	12000	[rpm]
Peak Efficiency	>95.5	[%]
Mass¹	20	[kg]
Diameter²	270	[mm]
Length³	106	[mm]
Inertia	0.01	[kgm ²]

Key Features:

- Low weight
- High efficiency
- High Torque
- Simple liquid cooling with water- glycol (no oil required)
- Low inertia
- Compatible with standard inverters
- Integrated resolver feedback
- Stator temperature sensors
- Flexible winding configuration allows for different operating voltages.

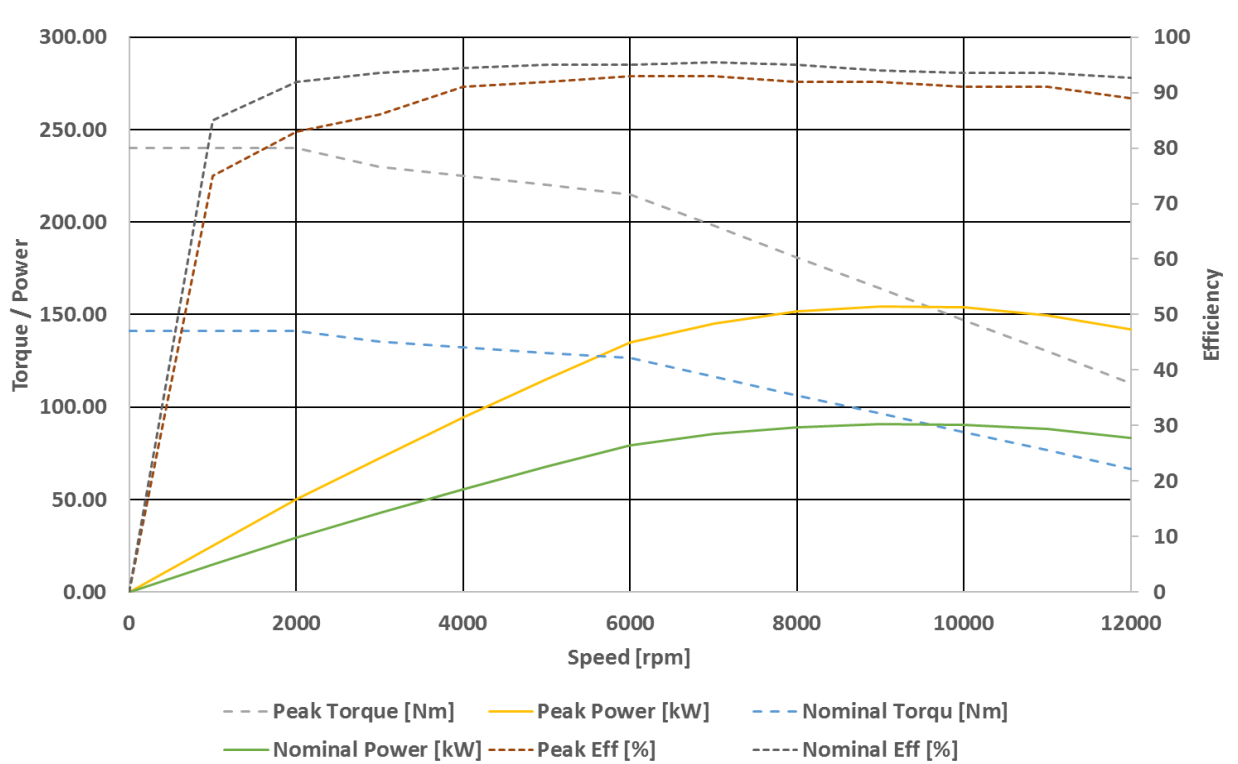
Typical performance values.

1) Dry complete with shaft 2) Body max diameter excluding terminal box and coolant manifold 3) Internal resolver version.

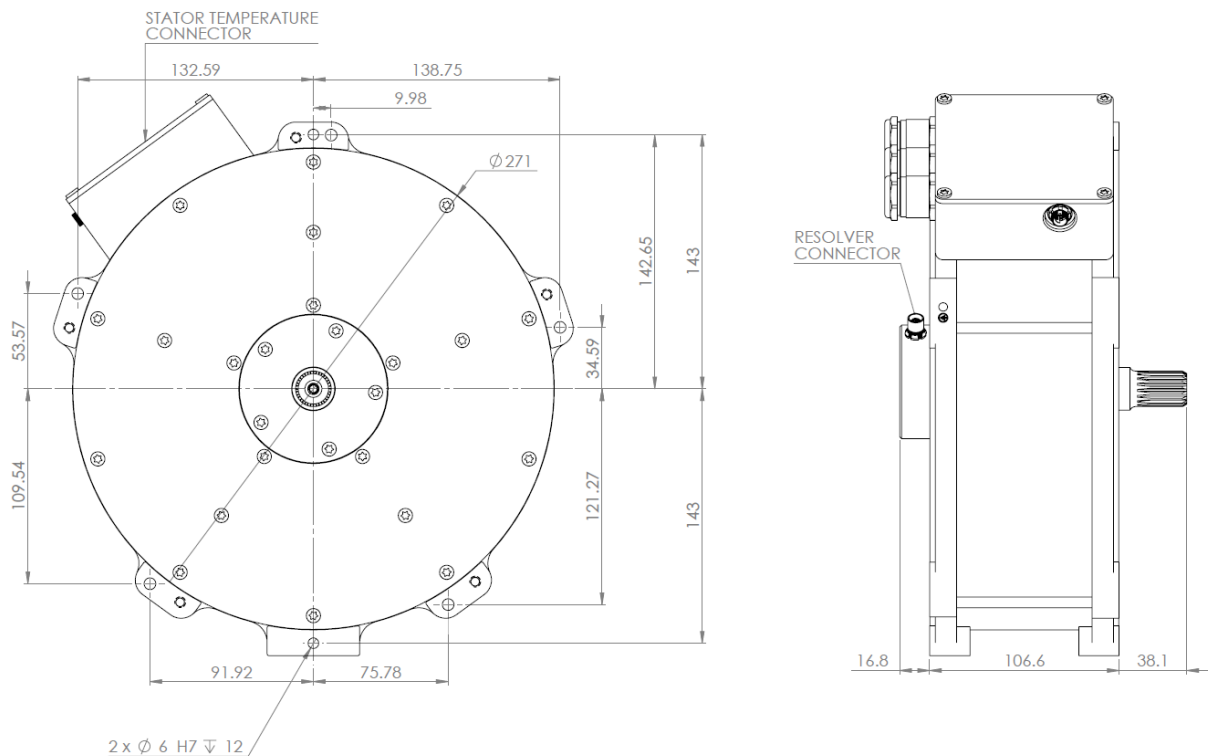
Please contact us to discuss your application requirements or other motor sizes you require. CAD models and detailed electrical parameters available on request.

Ratings and dimensions subject to change without notice, please consult factory.

PHI271 Typical Performance



PHI271 - Outline Drawing



Ratings and dimensions subject to change without notice, please consult factory. CAD models and detailed electrical parameters available on request.

© 2018 phi-power ag – version 1.3