

# QinetiX

## *Innovative Motor with fully integrated Power and Control Electronics*

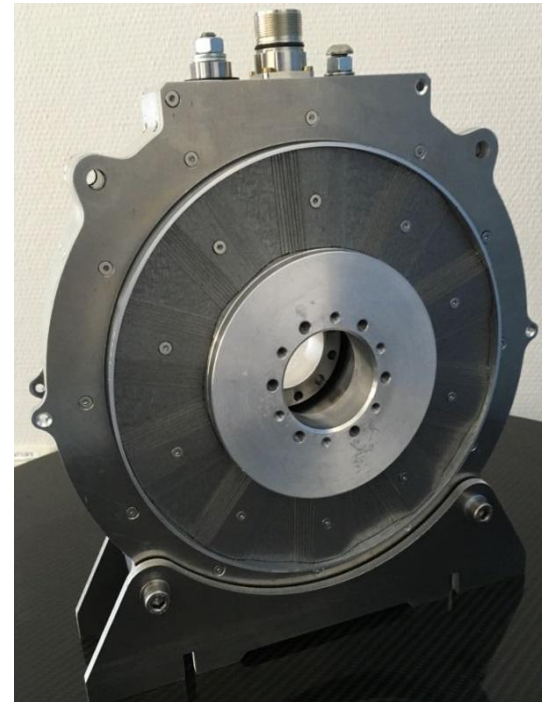
QinetiX develops and manufactures BLDC electrical motors and power generators based on an innovative electrical configuration design for different kind of applications. All the power and control electronics is accommodated within the electrical machine case in order to achieve high power to weight ratio and very compact dimensions.

### Electrical Motor/Generator

QPD-40 is a high performance Electric motor developed mainly for air sport. The motor can be suitable as direct drive for a propeller with high torque and low RPM. The innovative design leads to a high power density and compact device.

#### **Main features are:**

- Brushless Axial Flux Permanent Magnet Synchronous Motor
- Fully integrated power and control electronics
- Innovative control principle
- Liquid cooled stator and power electronics
- Optimal temperature distribution
- High efficiency



#### **Performance Summary**

Power = 40 KW

Weight = 12 Kg

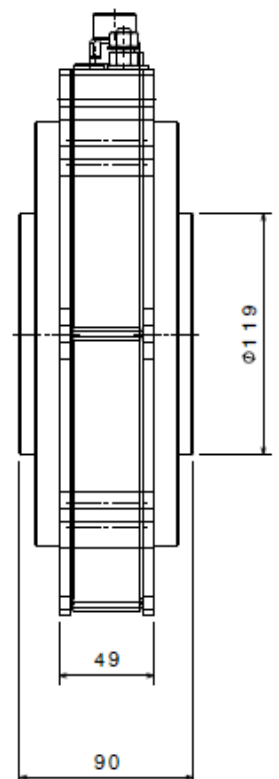
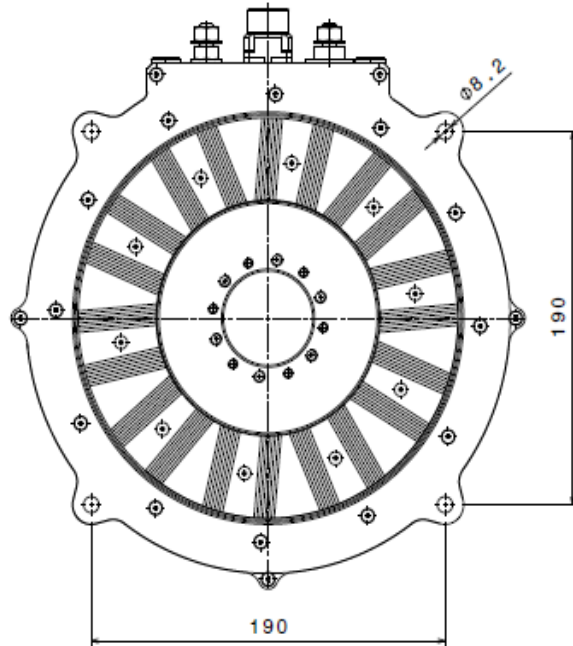
RPM = 1800

Torque = 212 Nm

Voltage = 60 V

Current = 680 A

Power Density = 3.2 KW/Kg



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## Applications

### **Aeronautics and flight sports**

QinetiX motors have been designed for aeronautical applications and Flight sports thanks to the high power density and intrinsic reliability. In particular QinetiX motors are specifically optimized for general aviation (powered glider) and for Unmanned Aerial Vehicles.



### **Automotive and E-power traction**

QinetiX designs and manufactures BLDC motors suitable for automotive and E-traction thanks to the very high Power and Torque densities.

QinetiX is open for partnership with automotive players to customize the motor design based on specific applications and requirements.



### **Power generation**

Due to the specific short axial length configuration QinetiX motors can be easily accommodated within internal combustion engines or wind turbine power generators.



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