### **ORBIT Series**

## **ORBIT 15-37-B8 P20**

Outrunner BLDC motor

#### **Overview**

The ORBIT 15 is from our family of weight optimized rugged outrunner BLDC motors and has been specifically designed for mission critical applications, including uncrewed systems and aerospace.

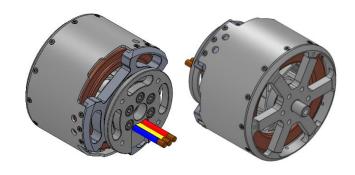
#### **Features**

- Ultra-light housing for weight sensitive applications
- Designed for high shock and vibration loads
- Increased robustness through three bearing design, adding additional support to housing
- Useful for applications with high torque requirements
- Designed for use with sensorless ESCs



Part number	03-049.037.00-000-039	
Peak output power	11	kW
Peak torque (max. 5s)	21	Nm
Max. speed	7,000	rpm
Voltage range	20-60	V
Speed constant (kV)	115	rpm/V
Diameter	103	mm
Length	84.5	mm
Weight	1,900	g
Phase cable length	100	mm
Recommended phase cable	8	mm²
extension	8	AWG
Mounting	Back	
Direction of rotation	Both	
Cooling	Air cooled	
Ambient temperature range	-20 to +60	°C
Number of poles	20	
Number of windings	8	
Peak thrust	44 kg with 36x12" prop	

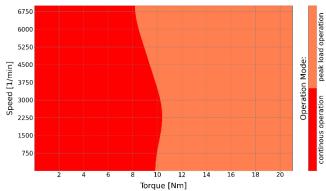




#### **Complementary Products**

Sensorless third party ESCs (e.g. Hargrave/APD or Allocortech)

### Heatmap



Note: Assuming 25°C ambient temperature and 10 m/s airflow.

#### **Options & Customization**

- Custom winding/kV versions
- MTBF/S report
- Mechanical customization or frameless kits
- Propeller study
- Corrosion protection version
- Position and temperature sensors

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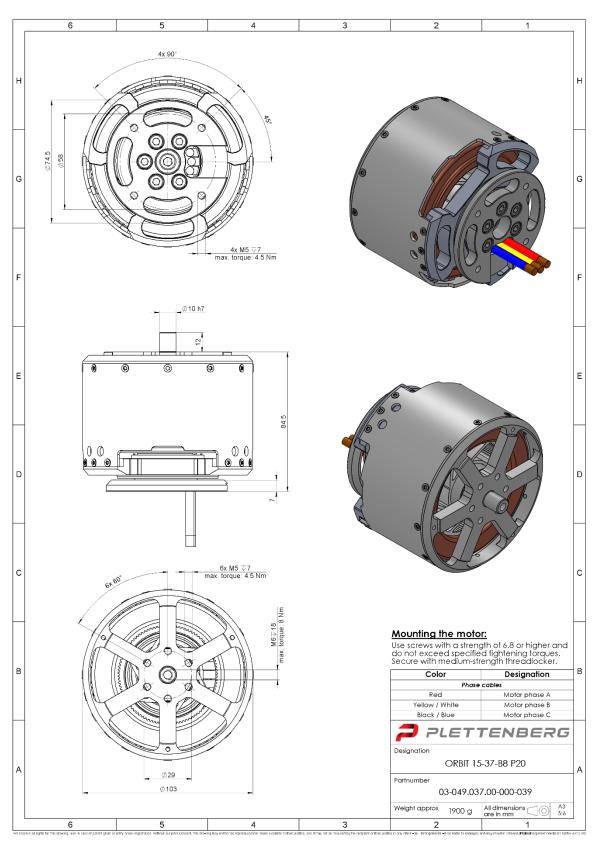


## **ORBIT Series**

## **PLETTENBERG**

# **ORBIT 15-37-B8 P20**

Outrunner BLDC motor



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