### **ORBIT Series**

## **ORBIT 15-30-B6 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.

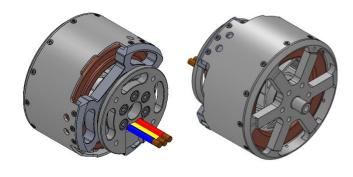
#### **Features**

- 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	03-049.030.00-000-042	
Peak output power	9	kW
Peak torque (max. 5s)	17	Nm
Max. speed	7,000	rpm
Voltage range	15-36	V
Speed constant (kV)	185	rpm/V
Diameter	103	mm
Length	74.5	mm
Weight	1,590	g
Phase cable length	100	mm
Recommended phase cable	10	mm²
extension	7	AWG
Mounting	Back	
Direction of rotation	Both	
Cooling	Air cooled	
Ambient temperature range	-20 to +60	°C
Number of poles	20	
Number of windings	6	
Peak thrust	40 kg with 32x10.6" prop	

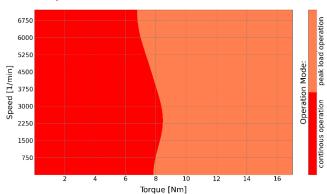




#### **Complementary Products**

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



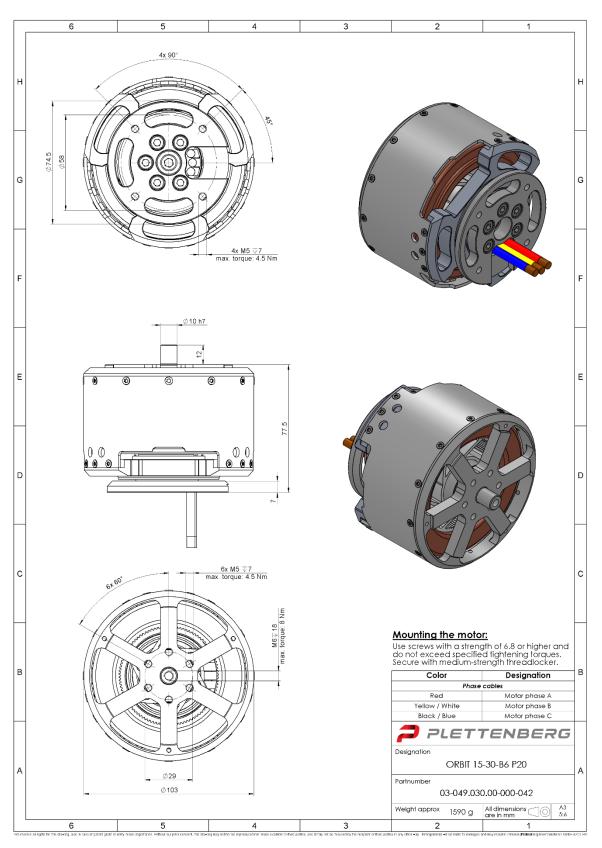


### **ORBIT Series**

## **PLETTENBERG**

# **ORBIT 15-30-B6 P20**

Outrunner BLDC motor



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