

Promax ND3766

High Performance Neodym Gearmotor

This **Promax** brush gearmotor is intended to upgrade 280 and 370 motors without the expense of brushless technology. It is designed to handle 3 cell, 11.1V lithium batteries. Please read the entire operating manual to ensure correct functionality and best performance. The ND3766 gearmotor is made for small parkflyer models weighing 10 to 24 ounces.

Features:

High Power - Ball Bearings - Adjustable Timing - Replaceable Brushes - Replaces 280-370 Motors

Specifications:

Weight: 69g(2.4oz)

Max Power: 100W

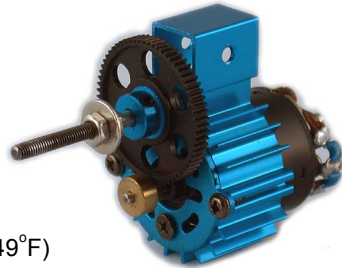
Gear Ratio: 4.43:1, 5.33:1, 6.6:1 included

Max Motor RPM: 50,000 RPM (11.0V)

Shaft Size: 3.0mm threaded, (.118")

Mounting: 10 x 10mm square stick mount

Maximum Motor Case Temperature: 65°C, (149°F)



Electrical Specifications:

PMX3726 Kv = 5500, Rm = .250, lo = 0.9

Efficient Operating Current = 4-8A Continuous, 10A, 15 seconds

Choosing a power system:

Power system can be chosen based on the type of flying expected of the model and all up weight of the aircraft. Sedate flying from a hand launch requires 35 watts per pound(W/Lb). Taking off the ground needs approximately 50W/Lb. Aerobatics and good climb performance, 75W/Lb. Anything more than 75W/Lb will result in excellent performance. Based on the weight of the model and the flying desired, the power require can be calculated. Select the voltage of the battery being used. It is best to use a loaded voltage of about 90% of nominal. Now, calculate the current required. From the chart, pick a motor at the voltage you intend to use and find the prop that pull the required current.

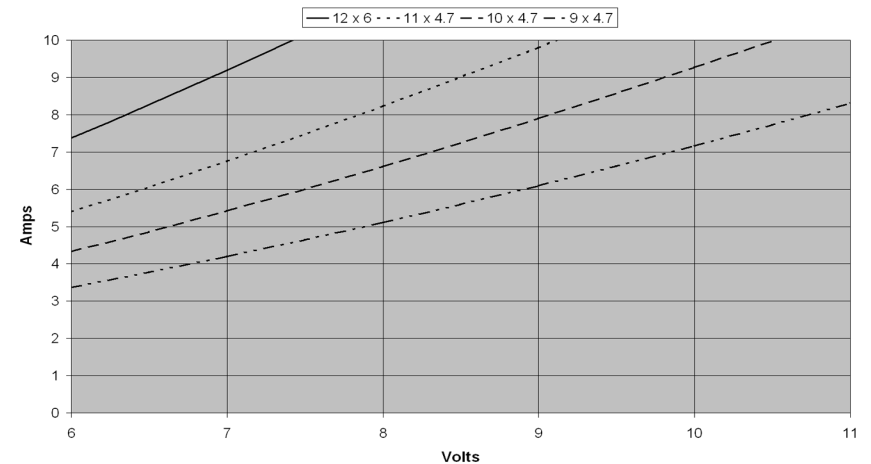
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MAXX PRODUCTS INTERNATIONAL, INC.

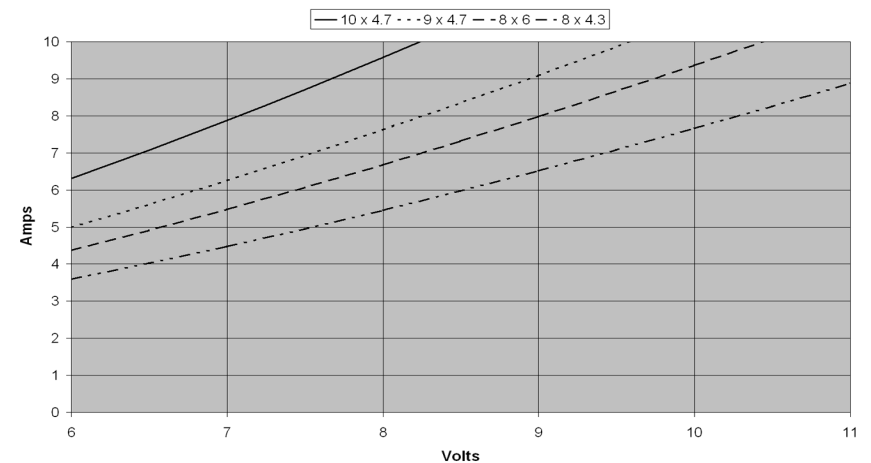
815 OAKWOOD RD, UNIT D, LAKE ZURICH, IL 60047, USA

Phone: (847)438-2233 Fax: (847)438-2898 www.maxxprod.com

ND3766, 6.6:1, Current vs. Voltage with Propeller



ND3766, 5.3:1, Current vs. Voltage with Propeller



Maintenance:

Keep the motor clean free of dust and dirt. Lubricate the bearings regularly with light oil. Do not immerse the motor in water, or solvents. Do not bend the wires excessively and secure wires to prevent breakage due to fatigue from vibration. Always used balanced propellers to reduce loads on bearings, to reduce noise, and reduce stress on the airframe.

Warranty:

This item includes a 90 day limited warranty from date of purchase to the original owner, excluding gearboxes. Not covered under warranty is crash damage, customer abuse, improper use, or overheating. Warranty claims should be handled directly with Maxx Products.