

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

MOTOR

Stator Size:

3115

KV Rating:

640 KV

Configuration:

12N14P

Dimensions:

37 × 47 mm

Weight:

120 g

Shaft Diameter:

5 mm

Lead-Wire Length:

300 mm

Wire Gauge:

16 AWG (1.5 mm²)

ELECTRICAL

Test Battery Configuration:

4S LiPo

Maximum Rated Speed:

20,700 RPM

Maximum Tested Speed:

8,057 RPM

Idle Current (20 V):

1 A

Peak Current:

40 A

Winding Resistance:

72 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 10 × 5 × 3 BATTERY: 4S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	16.80	0.12	857	20	2.0	9.92
20	16.80	0.29	1,886	68	4.9	13.96
30	16.76	0.71	2,743	144	11.9	12.10
40	16.72	1.49	3,600	258	24.9	10.36
50	16.64	2.70	4,543	408	44.9	9.08
60	16.51	4.34	5,314	595	71.7	8.30
70	16.37	6.72	6,086	793	110.0	7.21
80	16.16	9.44	6,771	1,000	152.6	6.56
90	15.95	12.71	7,371	1,212	202.9	5.97
100	15.61	17.05	8,057	1,447	266.2	5.44



CURVE INTERPRETATION

Curves are normalized representations of measured test data for visual comparison. Refer to the performance table for actual measured values.

ENGINEERING NOTES

Performance data is based on the bench-test conditions.

Actual performance may vary with installation, airflow, battery condition, ESC setup, and propeller variation.

Validate final selections using application-specific testing.

CONTACT

Product and application assistance:

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