

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: 6S LiPo
Maximum Rated Speed: 20,700 RPM
Maximum Tested Speed: 11,057 RPM
Idle Current (20 V): 1 A
Peak Current: 40 A
Winding Resistance: 72 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 10.5 × 5 × 3 BATTERY: 6S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.24	0.12	1,286	35	3.0	11.56
20	25.22	0.49	2,657	145	12.4	11.73
30	25.17	1.42	3,943	349	35.7	9.76
40	25.10	3.08	5,229	638	77.3	8.25
50	24.96	5.67	6,343	979	141.5	6.92
60	24.76	9.37	7,457	1,356	232.0	5.84
70	24.48	13.79	8,400	1,761	337.6	5.22
80	24.18	19.31	9,343	2,148	466.9	4.60
90	23.86	25.87	10,029	2,506	617.3	4.06
100	23.61	36.62	11,057	3,020	864.6	3.49



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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