

DIMENSIONAL DRAWINGAll 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: 8S LiPo
Maximum Rated Speed: 20,700 RPM
Maximum Tested Speed: 18,514 RPM
Idle Current (20 V): 1 A
Peak Current: 40 A
Winding Resistance: 72 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 7 × 4 × 3 BATTERY: 8S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	33.58	0.10	1,800	20	3.4	5.96
20	33.56	0.28	3,857	59	9.4	6.28
30	33.52	0.67	5,743	133	22.5	5.92
40	33.47	1.34	7,714	247	44.8	5.51
50	33.36	2.18	9,514	396	72.7	5.45
60	33.28	3.53	11,400	585	117.5	4.98
70	33.12	5.13	13,200	800	169.9	4.71
80	32.92	7.65	14,914	1,086	251.8	4.31
90	32.66	10.51	16,714	1,379	343.3	4.02
100	32.27	14.49	18,514	1,692	467.6	3.62



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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