

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

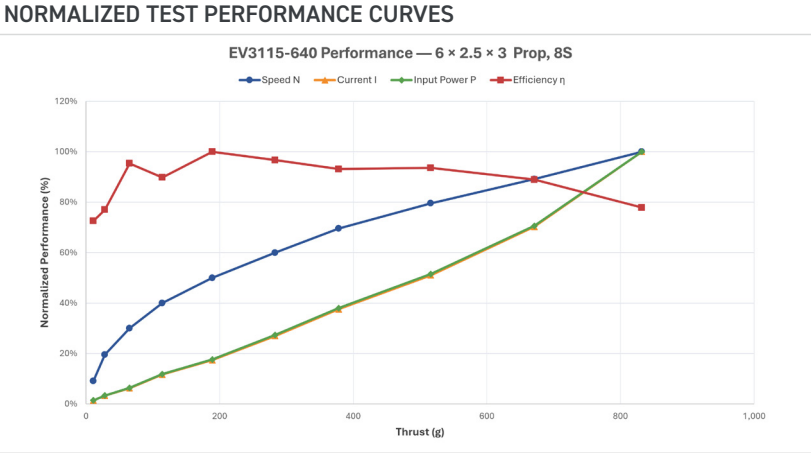
MOTOR

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: 8S LiPo
Maximum Rated Speed: 20,700 RPM
Maximum Tested Speed: 19,714 RPM
Idle Current (20 V): 1 A
Peak Current: 40 A
Winding Resistance: 72 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 6 × 2.5 × 3 BATTERY: 6S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	33.52	0.10	1,800	11	3.4	3.28
20	33.51	0.24	3,857	28	8.0	3.48
30	33.51	0.45	5,914	65	15.1	4.31
40	33.45	0.84	7,886	114	28.1	4.06
50	33.42	1.25	9,857	189	41.8	4.52
60	33.38	1.94	11,829	289	64.8	4.37
70	33.29	2.70	13,714	378	89.9	4.21
80	33.21	3.67	15,686	516	121.9	4.23
90	33.06	5.05	17,571	671	167.0	4.02
100	32.90	7.19	19,714	832	236.6	3.52



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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