

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

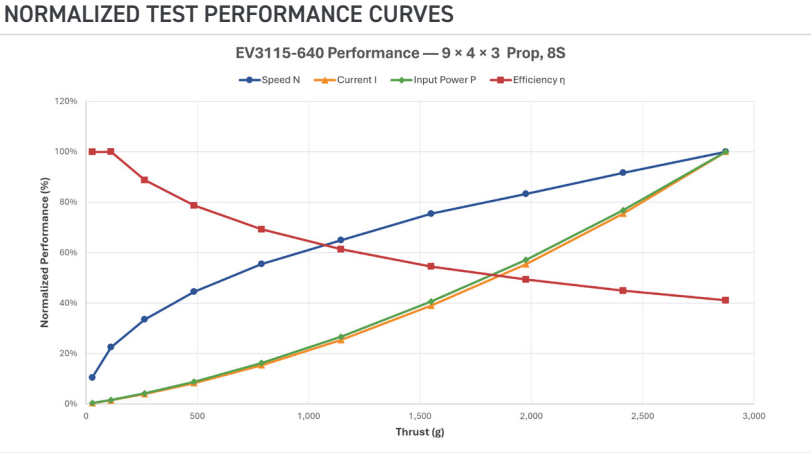
MOTOR

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: 16,371 RPM
Idle Current (20 V): 1 A
Peak Current: 40 A
Winding Resistance: 72 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 9 × 4 × 3 BATTERY: 8S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	33.56	0.10	1,714	28	3.4	8.34
20	33.52	0.40	3,686	112	13.4	8.35
30	33.47	1.06	5,486	263	35.5	7.41
40	33.38	2.21	7,286	485	73.8	6.57
50	33.24	4.10	9,086	788	136.3	5.78
60	32.99	6.78	10,629	1,145	223.7	5.12
70	32.71	10.42	12,343	1,550	340.8	4.55
80	32.34	14.81	13,629	1,975	479.0	4.12
90	31.93	20.17	15,000	2,412	644.0	3.75
100	31.38	26.73	16,371	2,873	838.8	3.43



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:

SALES@PELONISTECH.COM

PELONISTECHNOLOGIES.COM