

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

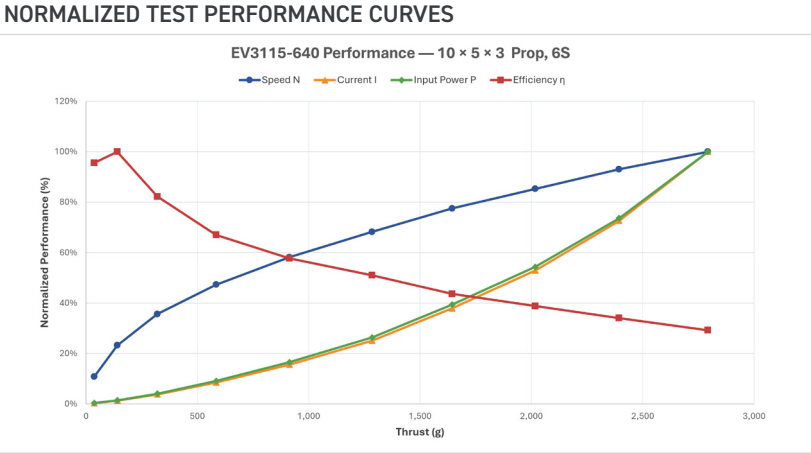
MOTOR

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 × 3 BATTERY: 6S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.24	0.13	1,200	37	3.3	11.28
20	25.24	0.47	2,571	140	11.9	11.80
30	25.19	1.31	3,943	320	33.0	9.70
40	25.10	2.94	5,229	584	73.8	7.91
50	24.96	5.37	6,429	913	134.0	6.81
60	24.76	8.62	7,543	1,285	213.4	6.02
70	24.50	13.02	8,571	1,644	319.0	5.15
80	24.19	18.19	9,429	2,017	440.0	4.58
90	23.88	24.96	10,286	2,394	596.0	4.02
100	23.56	34.36	11,057	3,793	809.5	3.45



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