EVERLINE®
UAV PROPULSION MOTORS
EV3100 SERIES

EV3115-640

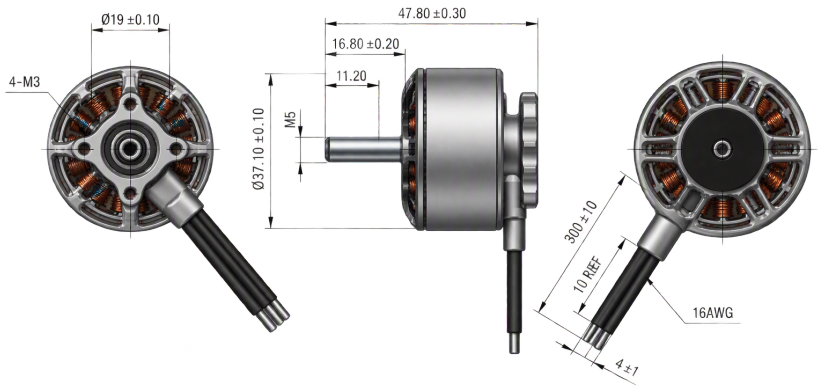
PROPELLER PERFORMANCE TEST

11 × 4.5 × 3 | 6S

PTI PELONIS TECHNOLOGIES

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

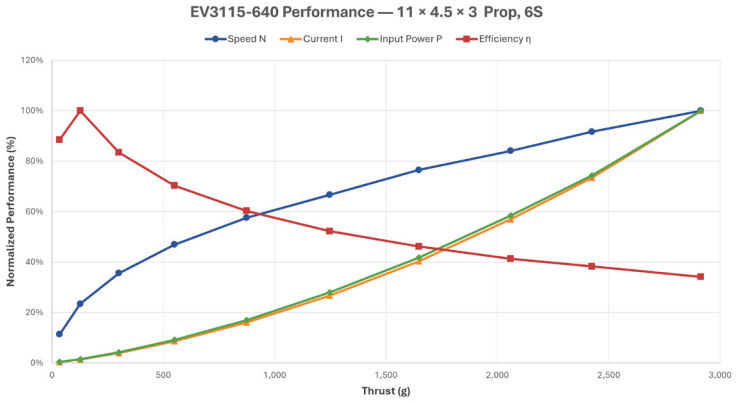
Test Battery Configuration:	6S LiPo
Maximum Rated Speed:	20,700 RPM
Maximum Tested Speed:	11,314 RPM
Idle Current (20 V):	1 A
Peak Current:	40 A
Winding Resistance:	72 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 11 × 4.5 × 3 | BATTERY: 6S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.24	0.13	1,286	34	3.3	10.36
20	25.22	0.43	2,657	127	10.8	11.71
30	25.17	1.22	4,029	300	30.7	9.77
40	25.12	2.66	5,314	550	66.8	8.23
50	24.99	4.95	6,514	873	123.7	7.06
60	24.81	8.21	7,543	1,246	203.7	6.12
70	24.55	12.40	8,657	1,647	304.4	5.41
80	24.27	17.54	9,514	2,060	425.7	4.84
90	23.96	22.61	10,371	2,425	541.7	4.48
100	23.68	30.77	11,314	2,914	728.6	4.00

NORMALIZED TEST PERFORMANCE CURVES



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