EVERLINE®
UAV PROPULSION MOTORS
EV3100 SERIES

EV3115-640

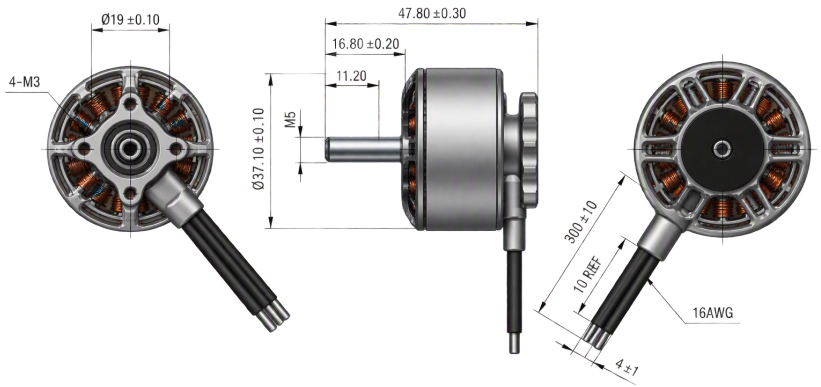
PROPELLER PERFORMANCE TEST

7.1 × 4 × 3 | 8S

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

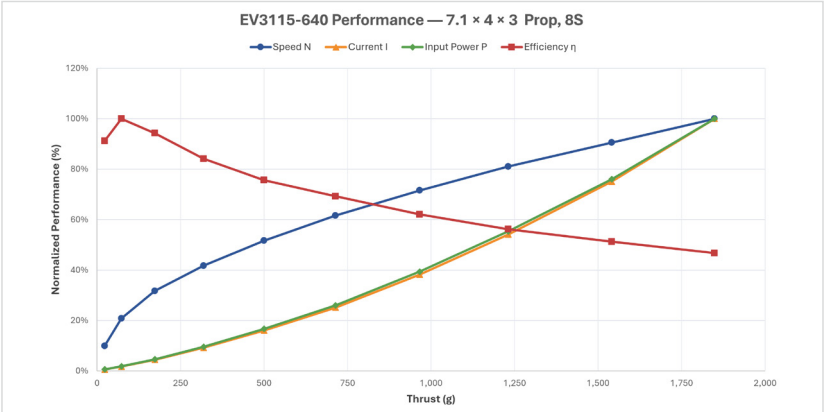
Test Battery Configuration:	8S LiPo
Maximum Rated Speed:	20,700 RPM
Maximum Tested Speed:	18,086 RPM
Idle Current (20 V):	1 A
Peak Current:	40 A
Winding Resistance:	72 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 7.1 × 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	1,800	23	3.4	6.85
20	33.54	0.29	3,771	73	9.7	7.51
30	33.49	0.73	5,743	173	24.4	7.08
40	33.44	1.51	7,543	319	50.5	6.32
50	33.35	2.64	9,343	500	88.0	5.68
60	33.22	4.13	11,143	714	137.2	5.20
70	33.03	6.28	12,943	966	207.4	4.66
80	32.80	8.89	14,657	1,231	291.6	4.22
90	32.50	12.32	16,371	1,541	400.4	3.85
100	32.09	16.42	18,086	1,849	526.9	3.51

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:

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