EVERLINE®
UAV PROPULSION MOTORS
EV3100 SERIES

EV3115-700

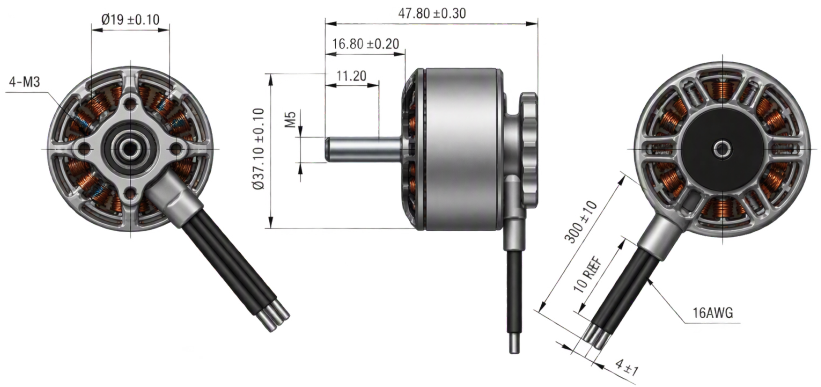
PROPELLER PERFORMANCE TEST

9 × 4 × 3 | 8S

PTI PELONIS TECHNOLOGIES

DIMENSIONAL DRAWING

All dimensions in millimeters



GENERAL SPECIFICATIONS

MOTOR

Stator Size:	3115
KV Rating:	700 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

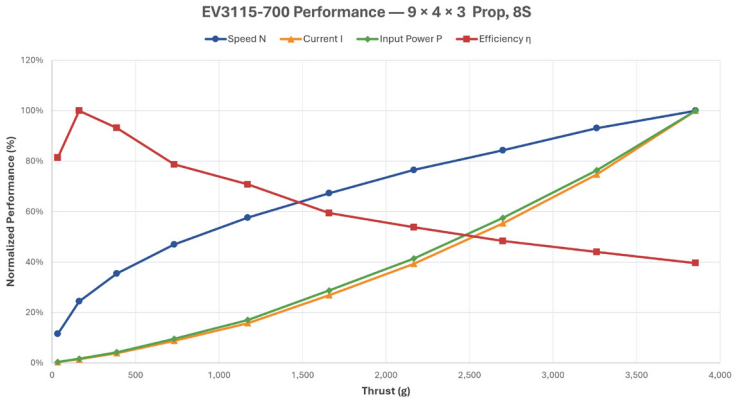
Test Battery Configuration:	8S LiPo
Maximum Rated Speed:	25,700 RPM
Maximum Tested Speed:	18,600 RPM
Idle Current (20 V):	1.1 A
Peak Current:	55 A
Winding Resistance:	56 mΩ

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	0.17	2,143	34	5.7	5.96
20	33.52	0.66	4,543	162	22.1	7.32
30	33.45	1.70	6,600	388	56.9	6.82
40	33.29	3.82	8,743	732	127.2	5.76
50	33.03	6.85	10,714	1,172	226.3	5.18
60	32.71	11.66	12,514	1,659	381.4	4.35
70	32.23	17.05	14,229	2,166	549.5	3.94
80	31.75	24.03	15,686	2,700	763.0	3.54
90	31.26	32.42	17,314	3,261	1,013.4	3.22
100	30.59	43.37	18,600	3,853	1,326.7	2.90

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

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