EVERLINE®
UAV PROPULSION MOTORS
EV3100 SERIES

EV3110-900

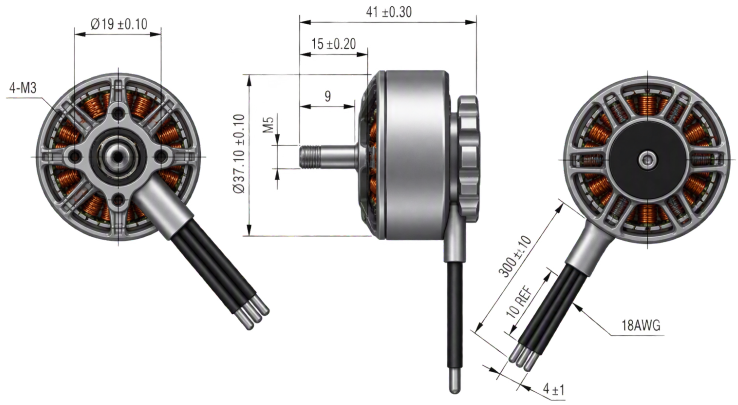
PROPELLER PERFORMANCE TEST

7 × 4 × 3 | 4S

PTI PELONIS TECHNOLOGIES

DIMENSIONAL DRAWING

All dimensions in millimeters



GENERAL SPECIFICATIONS

MOTOR

Stator Size:	3110
KV Rating:	900 KV
Configuration:	12N14P
Dimensions:	37 × 41 mm
Weight:	87 g
Shaft Diameter:	5 mm
Lead-Wire Length:	300 mm
Wire Gauge:	18 AWG (1 mm²)

ELECTRICAL

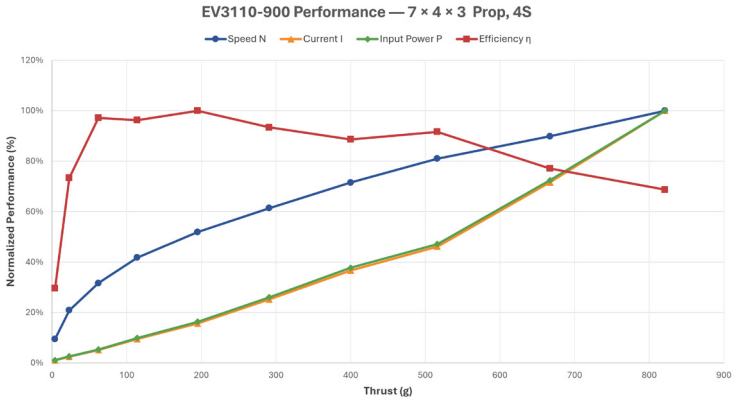
Test Battery Configuration:	4S LiPo
Maximum Rated Speed:	23,400 RPM
Maximum Tested Speed:	13,543 RPM
Idle Current (20 V):	1.1 A
Peak Current:	35 A
Winding Resistance:	73 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 7 × 4 × 3 | BATTERY: 4S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	16.81	0.12	1,286	4	2.0	1.98
20	16.78	0.28	2,829	23	4.7	4.90
30	16.76	0.57	4,286	62	9.6	6.49
40	16.72	1.06	5,657	114	17.7	6.43
50	16.67	1.75	7,029	195	29.2	6.68
60	16.60	2.81	8,314	291	46.6	6.24
70	16.51	4.09	9,686	400	67.5	5.92
80	16.37	5.15	10,971	516	84.3	6.12
90	16.21	7.99	12,171	667	129.5	5.15
100	16.02	11.16	13,543	821	178.8	4.59

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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