EVERLINE®
UAV PROPULSION MOTORS
EV3100 SERIES

EV3110-900

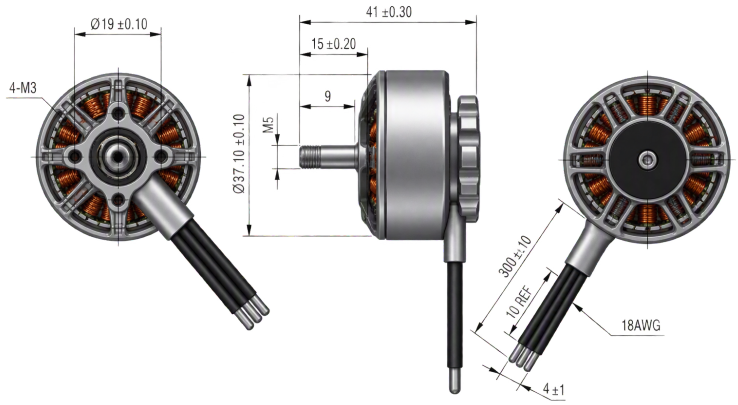
PROPELLER PERFORMANCE TEST

7.1 × 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

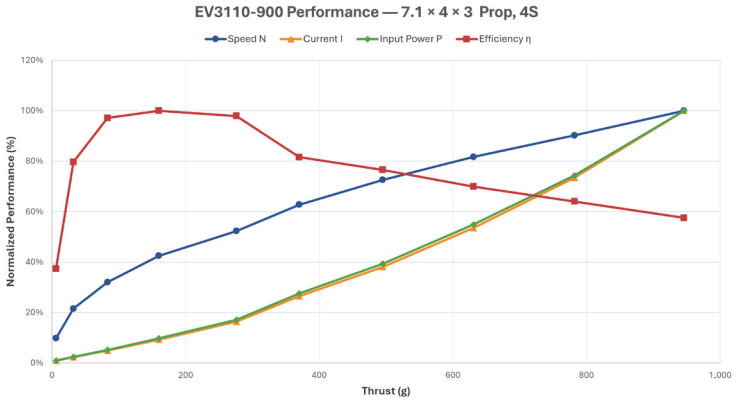
Test Battery Configuration:	4S LiPo
Maximum Rated Speed:	23,400 RPM
Maximum Tested Speed:	13,114 RPM
Idle Current (20 V):	1.1 A
Peak Current:	35 A
Winding Resistance:	73 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 7.1 × 4 × 3 | BATTERY: 4S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	16.78	0.12	1,286	6	2.0	2.98
20	16.78	0.30	2,829	32	5.0	6.36
30	16.74	0.64	4,200	83	10.7	7.75
40	16.71	1.20	5,571	160	20.1	7.98
50	16.67	2.12	6,857	276	35.3	7.81
60	16.56	3.43	8,229	370	56.8	6.51
70	16.44	4.93	9,514	495	81.0	6.11
80	16.32	6.93	10,714	631	113.1	5.58
90	16.10	9.51	11,829	782	153.1	5.11
100	15.91	12.95	13,114	946	206.0	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:

SALES@PELONISTECH.COM

PELONISTECHNOLOGIES.COM