

DIMENSIONAL DRAWING

All dimensions in millimeters

Technical drawing of the EV3110-900 motor showing three views: top, side, and rear. Dimensions include: top view diameter Ø19 ±0.10, 4-M3 mounting holes, 15 ±0.20, 9, 41 ±0.30, 18AWG wires, 300 ±10, 10 REF, 4 ±1, and side view diameter Ø37.10 ±0.10, M5 mounting hole, 15 ±0.20, 9, 41 ±0.30, 18AWG wires, 300 ±10, 10 REF, 4 ±1.

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:

6S LiPo

Maximum Rated Speed:

23,400 RPM

Maximum Tested Speed:

18,514 RPM

Idle Current (20 V):

1.1 A

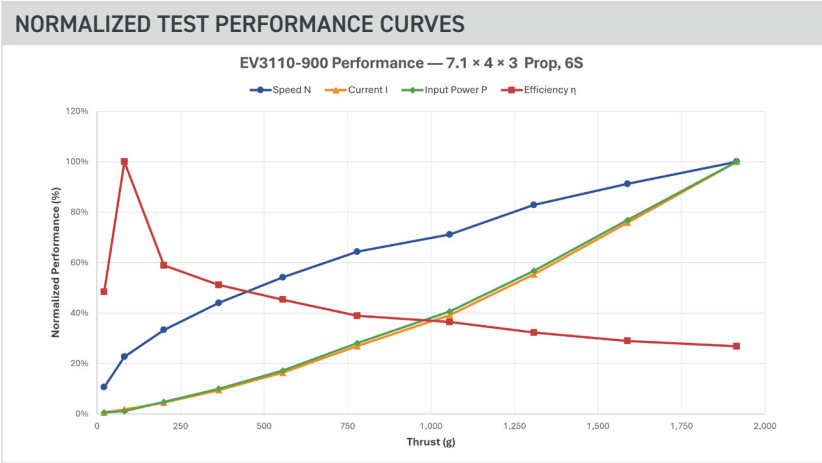
Peak Current:

35 A

Winding Resistance:

73 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 7.1 × 4 × 3 BATTERY: 6S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.19	0.14	1,971	21	3.5	5.95
20	15.17	0.44	4,200	82	6.7	12.29
30	25.12	1.10	6,171	200	27.6	7.24
40	25.06	2.31	8,143	364	57.9	6.29
50	24.96	4.00	10,029	556	99.8	5.57
60	24.83	6.57	11,914	779	163.1	4.78
70	24.62	9.58	13,174	1,056	235.9	4.48
80	24.39	13.51	15,343	1,308	329.5	3.97
90	24.11	18.51	16,886	1,588	446.3	3.56
100	23.79	24.41	18,514	1,915	580.7	3.30



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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