

DIMENSIONAL DRAWING

All dimensions in millimeters

Technical drawings of the EV2812-1100 motor showing front, side, and rear views with dimensions.

- Front View: $\varnothing 19 \pm 0.10$, 4-M3
- Side View: 40 ± 0.30 , 14.50 ± 0.20 , 8.50, $\varnothing 33.40 \pm 0.15$, M5
- Rear View: 250 ± 5 , 10 REF, 18AWG, 4 ± 1

GENERAL SPECIFICATIONS

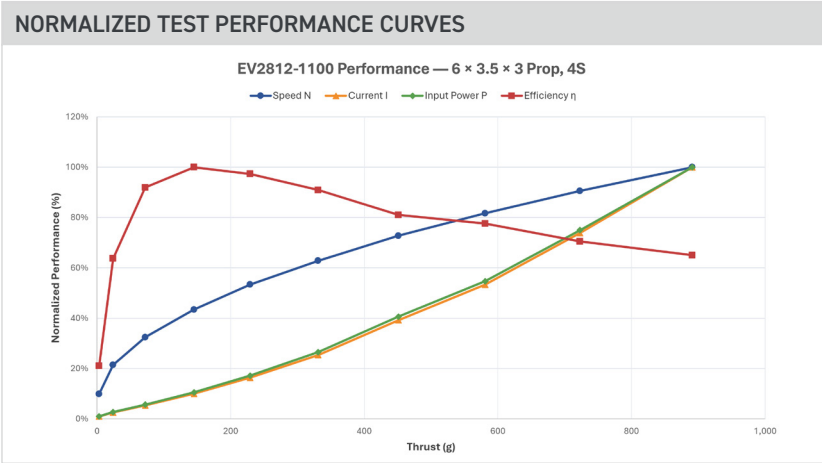
MOTOR

Stator Size: 2812
KV Rating: 1100 KV
Configuration: 12N14P
Dimensions: 33.4 × 40 mm
Weight: 78.9 g
Shaft Diameter: 5 mm
Lead-Wire Length: 250 mm
Wire Gauge: 18 AWG (1 mm²)

ELECTRICAL

Test Battery Configuration: 4S LiPo
Maximum Rated Speed: 29,100 RPM
Maximum Tested Speed: 16,371 RPM
Idle Current (20 V): 1.4 A
Peak Current: 55 A
Winding Resistance: 53.4 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 6 × 3.5 × 3 BATTERY: 4S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	16.80	0.14	1,629	3	2.4	1.28
20	16.78	0.37	3,514	24	6.2	3.87
30	16.76	0.77	5,314	72	12.9	5.58
40	16.71	1.43	7,114	145	23.9	6.07
50	16.64	2.33	8,743	229	38.8	5.91
60	16.55	3.62	10,286	331	59.9	5.52
70	16.42	5.58	11,914	451	91.6	4.92
80	16.25	7.59	13,371	581	123.3	4.71
90	16.09	10.51	14,829	723	169.1	4.28
100	15.84	14.23	16,371	891	225.4	3.95



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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