

DIMENSIONAL DRAWING

All dimensions in millimeters

Technical drawing of the EV3115-900 motor showing three views: front, side, and rear. Dimensions include: Front view: 4-M3 mounting holes, Ø19 ±0.10, Ø37.10 ±0.10. Side view: 47.80 ±0.30, 16.80 ±0.20, 11.20, M5, Ø37.10 ±0.10. Rear view: 300 ±10, 10 REF, 16AWG, 4 ±1.

GENERAL SPECIFICATIONS

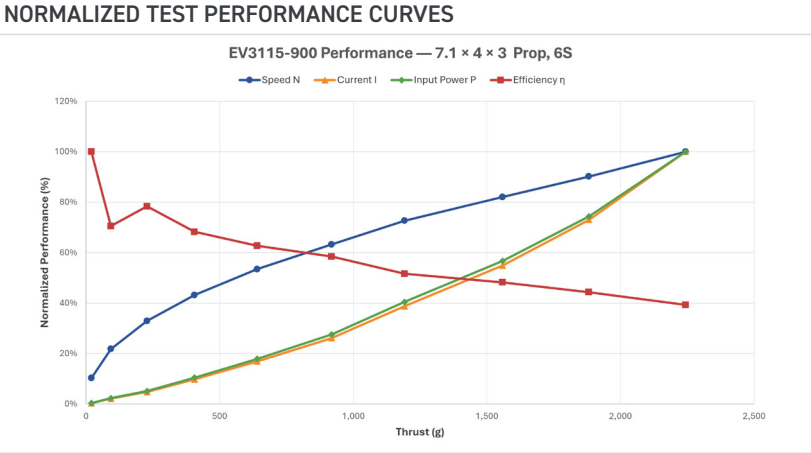
MOTOR

Stator Size: 3115
KV Rating: 900 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: 6S LiPo
Maximum Rated Speed: 24,500 RPM
Maximum Tested Speed: 20,057 RPM
Idle Current (20 V): 2 A
Peak Current: 45 A
Winding Resistance: 38 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	0.10	2,057	20	2.5	7.94
20	25.17	0.66	4,371	93	16.6	5.60
30	25.12	1.46	6,600	228	36.7	6.22
40	25.04	2.99	8,657	406	74.9	5.42
50	24.92	5.16	10,714	640	128.6	4.98
60	24.74	8.0	12,686	919	197.9	4.64
70	24.53	11.85	14,571	1,192	290.7	4.10
80	24.25	16.79	16,457	1,559	407.2	3.83
90	23.91	22.33	18,086	1,882	533.9	3.52
100	23.49	30.58	20,057	2,244	718.3	3.12



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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