

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

MOTOR

Stator Size: 1404
KV Rating: 2900 KV
Configuration: 9N12P
Dimensions: 18 × 16 mm
Weight: 10.1 g
Shaft Interface: Bolt-mounted propeller
Lead-Wire Length: 165 mm
Wire Gauge: 24 AWG

ELECTRICAL

Test Battery Configuration: 4S LiPo
Maximum Rated Speed: 39,300 RPM
Maximum Tested Speed: 36,700 RPM
Idle Current (10 V): 0.50 A
Peak Current: 10 A
Winding Resistance: 310 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 3 × 1.6 × 3 BATTERY: 4S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	16.76	0.08	3,900	0	1.3	0
20	16.76	0.17	8,400	6	2.8	2.11
30	16.74	0.31	12,600	17	5.2	3.28
40	16.72	0.62	16,500	38	10.4	3.67
50	16.71	0.92	20,300	65	15.4	4.23
60	16.67	1.47	23,800	92	24.5	3.75
70	16.65	2.16	27,500	122	36	3.39
80	16.58	2.86	30,600	160	47.4	3.37
90	16.51	3.78	33,700	199	62.4	3.19
100	16.44	4.95	36,700	238	81.4	2.92



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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