

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

MOTOR

Stator Size:

4215

KV Rating:

380 KV

Configuration:

12N14P

Dimensions:

49 × 65 mm

Weight:

175 g

Shaft Diameter:

6 mm

Lead-Wire Length:

750 mm

Wire Gauge:

14 AWG (2.5 mm²)

ELECTRICAL

Test Battery Configuration:

8S LiPo

Maximum Rated Speed:

12,340 RPM

Maximum Tested Speed:

9,514 RPM

Idle Current (20 V):

1.4 A

Peak Current:

51 A

Winding Resistance:

66 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 13 × 8 × 3 BATTERY: 8S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	33.54	0.13	943	23	4.4	5.27
20	33.52	0.54	2,143	158	18.1	8.73
30	33.45	1.30	3,257	412	43.5	9.47
40	33.35	2.72	4,371	745	90.7	8.21
50	33.15	4.95	5,314	1,172	164.1	7.14
60	32.92	7.79	6,343	1,623	256.4	6.33
70	32.57	11.59	7,200	2,120	377.5	5.62
80	32.16	16.34	7,971	2,673	525.5	5.09
90	31.72	21.54	8,829	3,196	683.2	4.68
100	31.12	28.75	9,514	3,854	894.7	4.31



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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