EVERLINE®
UAV PROPULSION MOTORS
EV4200 SERIES

EV4215-340

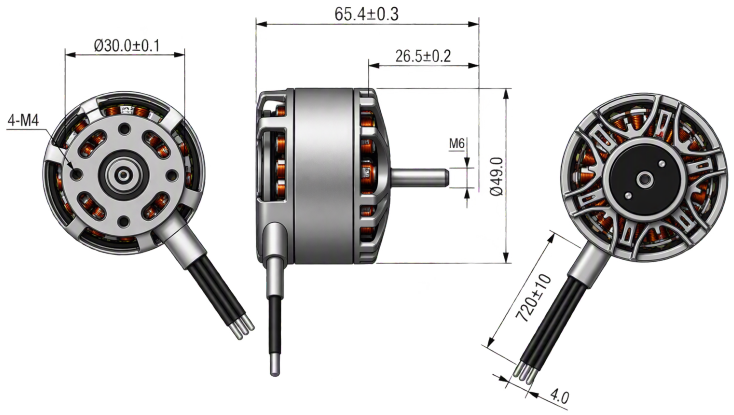
PROPELLER PERFORMANCE TEST

11 × 7.5 × 3 | 8S

PTI PELONIS TECHNOLOGIES

DIMENSIONAL DRAWING

All dimensions in millimeters



GENERAL SPECIFICATIONS

MOTOR

Stator Size:	4215
KV Rating:	340 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

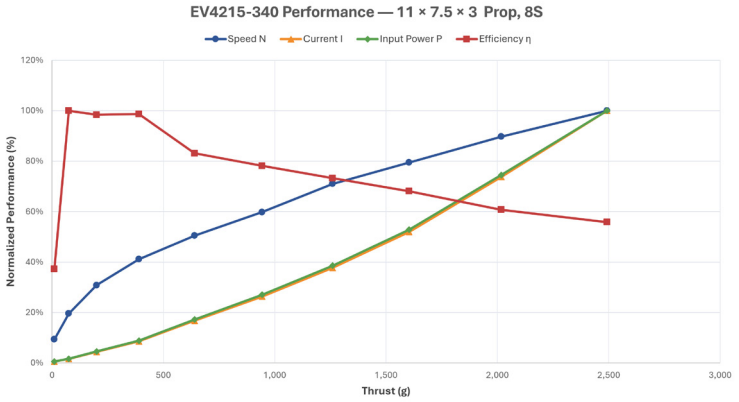
Test Battery Configuration:	8S LiPo
Maximum Rated Speed:	10,900 RPM
Maximum Tested Speed:	9,171 RPM
Idle Current (20 V):	1.1 A
Peak Current:	32 A
Winding Resistance:	79 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 11 × 7.5 × 3 | BATTERY: 8S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	32.75	0.10	857	10	3.3	3.05
20	32.75	0.28	1,800	75	9.2	8.18
30	32.71	0.76	2,829	200	24.9	8.05
40	32.66	1.48	3,771	390	48.3	8.07
50	32.66	2.89	4,629	640	94.1	6.80
60	32.57	4.54	5,486	943	147.5	6.39
70	32.48	6.51	6,514	1,260	210.4	5.99
80	32.32	8.96	7,286	1,603	288	5.57
90	31.93	12.72	8,229	2,017	406.1	4.97
100	31.59	17.25	9,171	2,492	544.9	4.57

NORMALIZED TEST PERFORMANCE CURVES



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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