EVERLINE®
UAV PROPULSION MOTORS
EV4200 SERIES

# EV4215-340

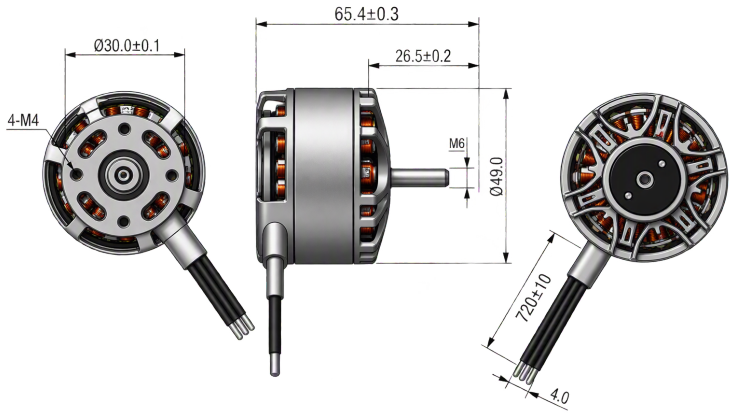
PROPELLER PERFORMANCE TEST

15 × 7 × 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

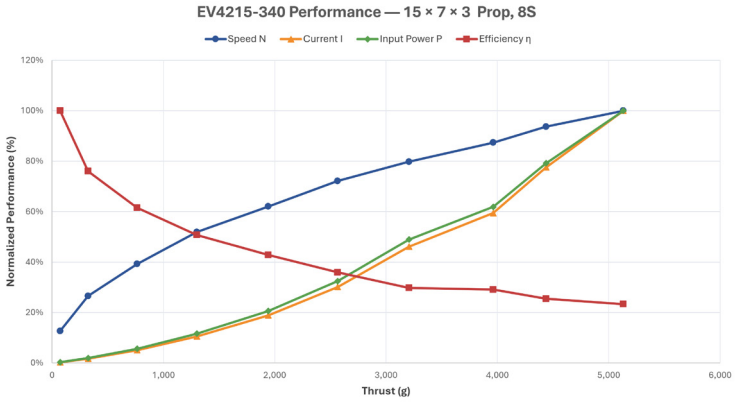
| | |
|---|---|
| Test Battery Configuration: | 8S LiPo |
| Maximum Rated Speed: | 10,900 RPM |
| Maximum Tested Speed: | 6,771 RPM |
| Idle Current (20 V): | 1.1 A |
| Peak Current: | 32 A |
| Winding Resistance: | 79 mΩ |

## PROPELLER PERFORMANCE DATA

PROPELLER: 15 × 7 × 3 | BATTERY: 8S LiPo

| Throttle (%) | Voltage (V) | Current (A) | Speed (RPM) | Thrust (g) | Input Power (W) | Efficiency (g/W) |
|---|---|---|---|---|---|---|
| 10 | 33.51 | 0.13 | 857 | 73 | 4.4 | 16.76 |
| 20 | 33.47 | 0.76 | 1,800 | 324 | 25.4 | 12.74 |
| 30 | 33.33 | 2.22 | 2,657 | 763 | 74.0 | 10.31 |
| 40 | 33.12 | 4.61 | 3,514 | 1,300 | 152.7 | 8.51 |
| 50 | 32.80 | 8.25 | 4,200 | 1,942 | 270.6 | 7.18 |
| 60 | 32.36 | 13.17 | 4,886 | 2,566 | 426.2 | 6.02 |
| 70 | 31.88 | 20.17 | 5,400 | 3,206 | 643.0 | 4.99 |
| 80 | 31.29 | 25.97 | 5,914 | 3,962 | 812.6 | 4.88 |
| 90 | 30.69 | 33.89 | 6,343 | 4,438 | 1,040.1 | 4.27 |
| 100 | 30.05 | 43.71 | 6,771 | 5,131 | 1,313.5 | 3.91 |

## 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

Product and application assistance:

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