

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

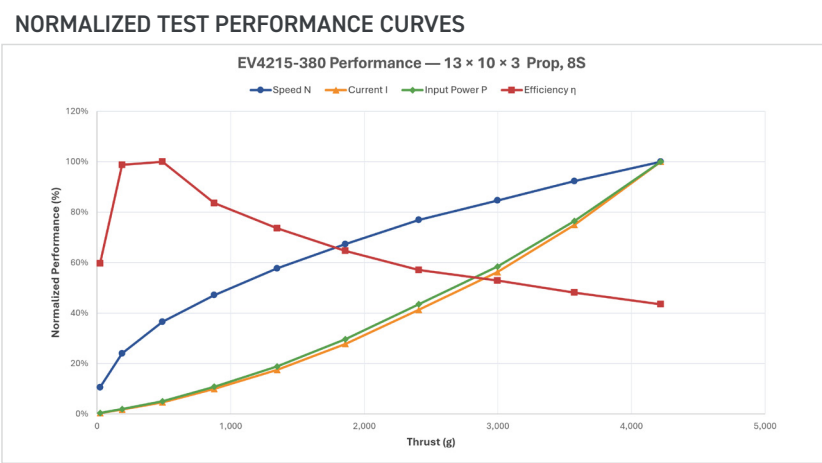
MOTOR

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: 8,914 RPM  
Idle Current (20 V): 1.4 A  
Peak Current: 51 A  
Winding Resistance: 66 mΩ

| PROPELLER PERFORMANCE DATA                |             |             |             |            |                 |                  |
|-------------------------------------------|-------------|-------------|-------------|------------|-----------------|------------------|
| PROPELLER: 13 × 10 × 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       | 0.64        | 2,143       | 187        | 21.5            | 8.72             |
| 30                                        | 33.42       | 1.66        | 3,257       | 490        | 55.5            | 8.83             |
| 40                                        | 33.28       | 3.57        | 4,200       | 877        | 118.8           | 7.38             |
| 50                                        | 33.05       | 6.27        | 5,143       | 1,347      | 207.2           | 6.50             |
| 60                                        | 32.71       | 9.96        | 6,000       | 1,859      | 325.8           | 5.71             |
| 70                                        | 32.30       | 14.80       | 6,857       | 2,408      | 478.0           | 5.04             |
| 80                                        | 31.82       | 20.18       | 7,543       | 2,997      | 642.1           | 4.67             |
| 90                                        | 31.28       | 26.88       | 8,229       | 3,574      | 840.8           | 4.25             |
| 100                                       | 30.64       | 35.86       | 8,914       | 4,219      | 1,098.8         | 3.84             |



**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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