

DIMENSIONAL DRAWINGAll dimensions in millimeters

GENERAL SPECIFICATIONS

MOTOR

Stator Size: 3115  
KV Rating: 640 KV  
Configuration: 12N14P  
Dimensions: 37 × 47 mm  
Weight: 120 g  
Shaft Diameter: 5 mm  
Lead-Wire Length: 300 mm  
Wire Gauge: 16 AWG (1.5 mm²)

ELECTRICAL

Test Battery Configuration: 6S LiPo  
Maximum Rated Speed: 20,700 RPM  
Maximum Tested Speed: 13,457 RPM  
Idle Current (20 V): 1 A  
Peak Current: 40 A  
Winding Resistance: 72 mΩ

| PROPELLER PERFORMANCE DATA              |             |             |             |            |                 |                  |
|-----------------------------------------|-------------|-------------|-------------|------------|-----------------|------------------|
| PROPELLER: 8 × 4 × 3   BATTERY: 6S LiPo |             |             |             |            |                 |                  |
| Throttle (%)                            | Voltage (V) | Current (A) | Speed (RPM) | Thrust (g) | Input Power (W) | Efficiency (g/W) |
| 10                                      | 24.89       | 0.10        | 1,286       | 17         | 2.5             | 6.83             |
| 20                                      | 24.89       | 0.27        | 2,829       | 71         | 6.7             | 10.57            |
| 30                                      | 24.87       | 0.65        | 4,200       | 145        | 16.2            | 8.97             |
| 40                                      | 24.83       | 1.25        | 5,571       | 259        | 31.0            | 8.34             |
| 50                                      | 24.78       | 2.12        | 6,857       | 385        | 52.5            | 7.33             |
| 60                                      | 24.71       | 3.54        | 8,314       | 561        | 87.5            | 6.41             |
| 70                                      | 24.60       | 5.17        | 9,600       | 757        | 127.2           | 5.95             |
| 80                                      | 24.46       | 7.86        | 10,800      | 1000       | 192.3           | 5.20             |
| 90                                      | 24.34       | 10.84       | 12,171      | 1,259      | 263.8           | 4.77             |
| 100                                     | 24.11       | 14.65       | 13,457      | 1,552      | 353.2           | 4.39             |



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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