

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

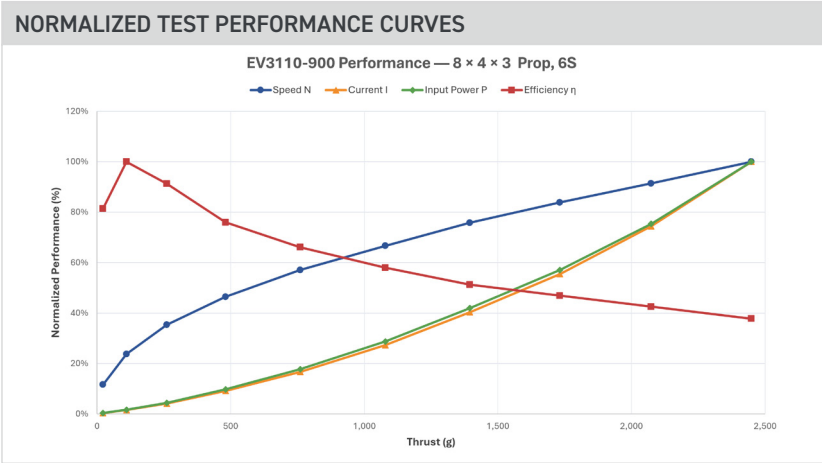
MOTOR

Stator Size: 3110  
KV Rating: 900 KV  
Configuration: 12N14P  
Dimensions: 37 × 41 mm  
Weight: 87 g  
Shaft Diameter: 5 mm  
Lead-Wire Length: 300 mm  
Wire Gauge: 18 AWG (1 mm²)

ELECTRICAL

Test Battery Configuration: 6S LiPo  
Maximum Rated Speed: 23,400 RPM  
Maximum Tested Speed: 16,971 RPM  
Idle Current (20 V): 1.1 A  
Peak Current: 35 A  
Winding Resistance: 73 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                                      | 25.24       | 0.13        | 1,971       | 22         | 3.3             | 6.70             |
| 20                                      | 25.22       | 0.53        | 4,029       | 110        | 13.4            | 8.23             |
| 30                                      | 25.17       | 1.38        | 6,000       | 261        | 34.7            | 7.51             |
| 40                                      | 25.08       | 3.07        | 7,886       | 481        | 77.0            | 6.25             |
| 50                                      | 25.94       | 5.60        | 9,686       | 760        | 139.7           | 5.44             |
| 60                                      | 24.74       | 9.14        | 11,314      | 1,079      | 226.1           | 4.77             |
| 70                                      | 24.46       | 13.50       | 12,857      | 1,395      | 330.2           | 4.22             |
| 80                                      | 24.16       | 18.58       | 14,229      | 1,732      | 448.9           | 3.86             |
| 90                                      | 23.79       | 24.93       | 15,514      | 2,074      | 593.1           | 3.50             |
| 100                                     | 23.49       | 33.49       | 16,971      | 2,449      | 786.7           | 3.11             |



**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:

SALES@PELONISTECH.COM

PELONISTECHNOLOGIES.COM