EVERLINE®
UAV PROPULSION MOTORS
EV1400 SERIES

EV1404-2900

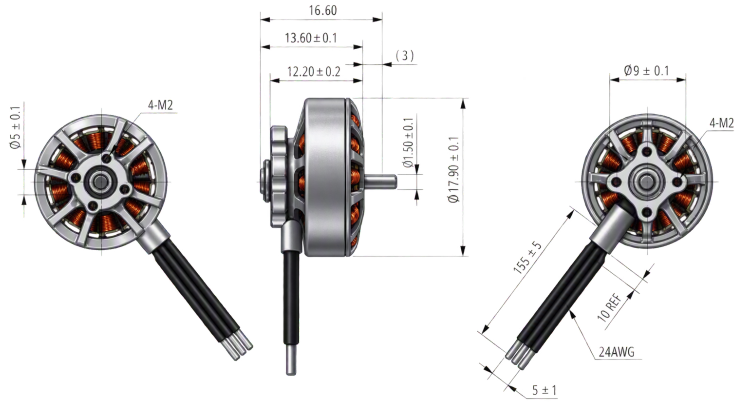
PROPELLER PERFORMANCE TEST

4 × 2 × 3 | 2S

PTI PELONIS TECHNOLOGIES

DIMENSIONAL DRAWING

All dimensions in millimeters



GENERAL SPECIFICATIONS

MOTOR

Stator Size:	1404
KV Rating:	2900 KV
Configuration:	9N12P
Dimensions:	18 × 16 mm
Weight:	10.1 g
Shaft Interface:	Bolt-mounted propeller
Lead-Wire Length:	165 mm
Wire Gauge:	24 AWG

ELECTRICAL

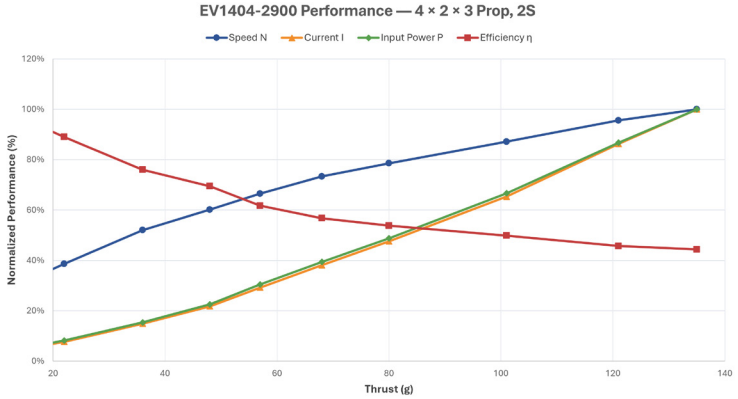
Test Battery Configuration:	2S LiPo
Maximum Rated Speed:	39,300 RPM
Maximum Tested Speed:	16,126 RPM
Idle Current (10 V):	0.50 A
Peak Current:	10 A
Winding Resistance:	310 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 4 × 2 × 3 | BATTERY: 2S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	8.40	0.12	4,449	11	1.0	10.91
20	8.39	0.27	6,231	22	2.3	9.71
30	8.35	0.52	8,394	36	4.3	8.29
40	8.33	0.76	9,705	48	6.3	7.58
50	8.30	1.02	10,725	57	8.5	6.73
60	8.26	1.33	11,823	68	11.0	6.19
70	8.21	1.66	12,668	80	13.6	5.87
80	8.14	2.28	14,054	101	18.6	5.44
90	8.05	3.01	15,410	121	24.2	4.99
100	8.00	3.49	16,126	135	27.9	4.84

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:

SALES@PELONISTECH.COM

PELONISTECHNOLOGIES.COM