

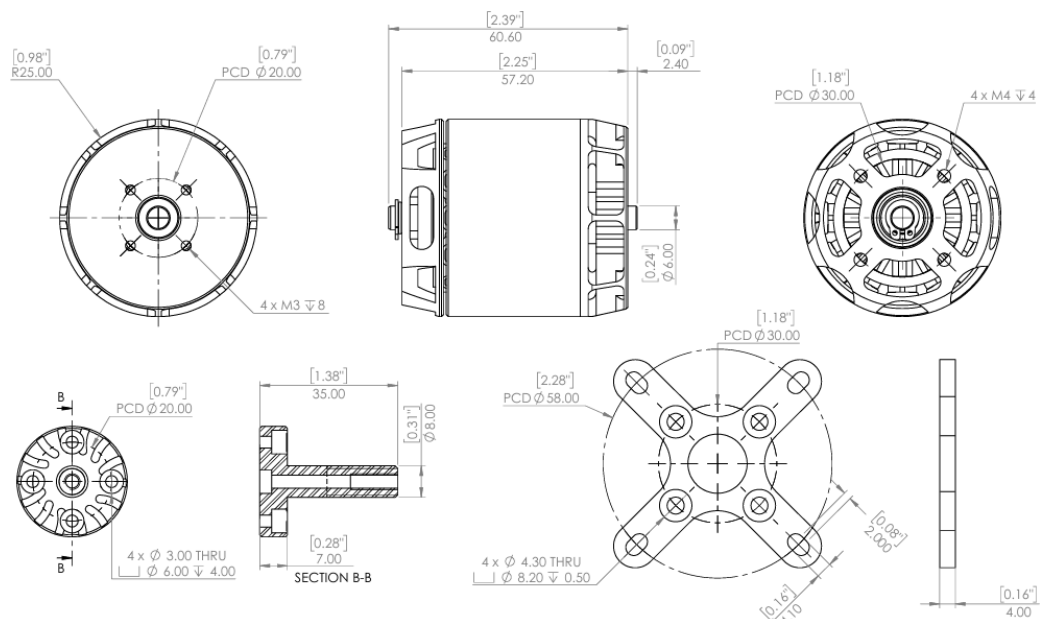
4130 FW

300 KV

MOTOR SPECIFICATIONS

Kv (Motor Velocity Constant)	300 RPM/V
Kt (Motor Torque Constant)	0.046 Nm/A @ 8327 RPM
Maximum Continuous Current*	23A [180s]
Maximum Continuous Power*	1134.3 W [180s]
Power Density	2.83 W/g [Rated], 6.38 W/g [Maximum]
Voltage Range	44V - 50V [12S LiPo]
I _o [24@V]	2.6 A [24@V]
Inductance per phase (Winding Inductance)	0.182 [≈ 0.03] mH
R _{ph} (Wind Resistance per phase)	0.183[≈ 0.03] Ω
Stator Poles	12S
Magnetic Poles	14P
Bearings	SINGLE 696-ZZ Sealed
Stick Out Shaft Diameter	$\varnothing$ 6 mm
Motor Diameter	$\varnothing$ 50 mm
Motor Length	57.2 mm
Motor Weight	400 g $\pm$ 2 g
Mount Pattern @ 90 deg	4 X M4 @ PCD $\varnothing$ 30 mm $\downarrow$ 4 mm
Compatible Propeller Size	14" inch to 18" inch
Propeller Mount Pattern	4 X M3 @ PCD $\varnothing$ 20 mm, $\downarrow$ 8 mm

2D CAD



Note: Specifications and drawings may be revised without notice. Vector Technics assumes no liability for reliance on unverified data. All Dimensions in millimeters (mm)

4130 FW 300 KV - TEST DATA

Note: The test data provided below is subject to environmental and testing conditions, including but not limited to temperature, humidity, altitude, and the equipment used. Results may vary depending on specific testing parameters and conditions.

Propeller	14 x 8 CFRP_FP					
ESC	80A 14S			Power Supply / Battery	2 x HWB- 22000 mAh 6S	
Test Date:	02-01-2026	Humidity:	47 %	Environmental Temp:	27 ° C	Cross-winds: Mild

PWM -	Voltage	Current (A)	RPM	Thrust (g)	Torque	Electrical	Efficiency	Temp
1300 - 30	50.26	1.22	2936	356	0.115	61.3	5.8	120 ° C [@70% 10 min Constant]
1400 - 40	50.08	3.34	4364	829	0.256	167.3	5.0	
1500 - 50	49.88	6.79	5617	1404	0.44	338.7	4.2	
1600 - 60	49.6	13.34	7084	2303	0.726	661.6	3.5	
1700 - 70	49.04	23.13	8327	3262	1.075	1134.3	2.9	
1750 - 75	48.76	29.96	8897	3779	1.302	1460.8	2.6	150° C [Maximum]
1800 - 80	48.39	36.64	9343	4227	1.501	1773.0	2.4	
1850 - 85	48.06	43.54	9834	4562	1.666	2092.5	2.2	
1900 - 90	47.55	53.69	10193	5004	1.949	2552.9	2.0	

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