

VECTOR TECHNICS

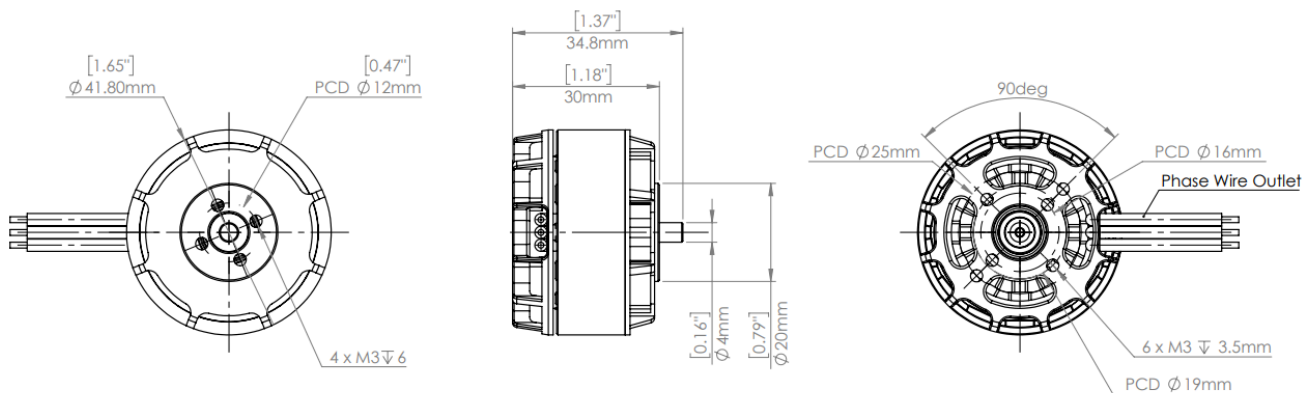
3510 PRO

700 KV

MOTOR SPECIFICATIONS

Kv (Motor Velocity Constant)	700 RPM/V
Kt (Motor Torque Constant)	0.0207 Nm/A @ 7409 RPM
Maximum Continuous Current*	9.92A (180s)
Maximum Continuous Power*	243.7 W (180s)
Power Density	2.29 W/g (Rated), 5.8 W/g (Maximum)
Voltage Range	18V - 24V (6S LiPo)
I _o (XX@V)	1.47A (24@V)
Inductance per phase (Winding Inductance)	0.049 [$\approx$ 0.03] mH
R _{ph} (Wind Resistance per phase)	0.066 [$\approx$ 0.03] Ω
Stator Poles	12S
Magnetic Poles	14P
Bearings	Dual 619_ 4-2z
Stick Out Shaft Diameter	$\varnothing$ 20 mm
Motor Diameter	$\varnothing$ 41.80 mm
Motor Length	30 mm
Motor Weight	106.3 g $\pm$ 1%
Mount Pattern @ 90 deg	6 X M3 @ PCD $\varnothing$ 19 mm $\downarrow$ 3.5 mm
Compatible Propeller Size	12 " inch to 14 " inch
Propeller Mount Pattern	4 X M3 @ PCD $\varnothing$ 12 mm $\downarrow$ 6 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)

3510 PRO 700 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 4.8 CF_FX				
ESC	VT 60A 6S			Power Supply / Battery	HWB - 22000 mAh 25C 6S
Test Date:	01-11-2025	Humidity:	49 %	Environmental Temp:	29 ° C
				Cross-winds: Mild	

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1150 - 15	24.89	0.38	1902	83	0.026	9.5	8.8	80 ° C [@70% 10 min Constant]
1200 - 20	24.88	0.79	2751	184	0.044	19.7	9.4	
1250 - 25	24.85	1.49	3478	308	0.071	37.0	8.3	
1300 - 30	24.82	2.39	4115	440	0.098	59.3	7.4	
1350 - 35	24.78	3.66	4772	600	0.129	90.7	6.6	
1400 - 40	24.73	5.19	5385	766	0.162	128.4	6.0	106 ° C [Maximum]
1500 - 50	24.57	9.92	6532	1160	0.248	243.7	4.8	
1600 - 60	24.4	15.34	7409	1527	0.319	374.3	4.1	
1700 - 70	24.18	22.37	8159	1906	0.402	540.9	3.5	
1750 - 75	24.08	25.62	8514	2075	0.434	616.9	3.4	

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