

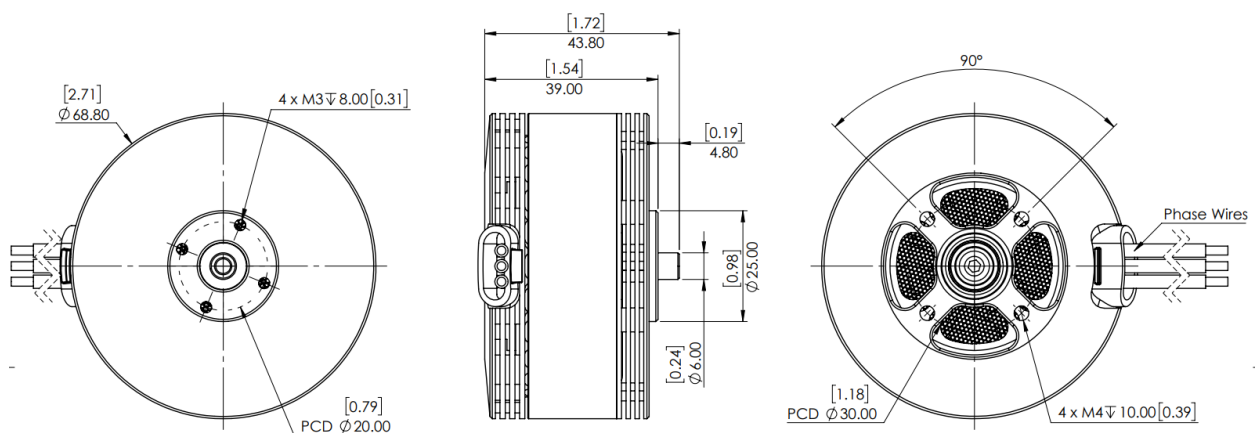
6015 PRO

170 KV

MOTOR SPECIFICATIONS

Kv (Motor Velocity Constant)	170 RPM/V
Kt (Motor Torque Constant)	0.072 Nm/A @ 5184 RPM
Maximum Continuous Current*	35A [180s]
Maximum Continuous Power*	1634W [180s]
Power Density	4.3 W/g [Rated], 7.02 W/g [Maximum]
Voltage Range	44V - 50V [12S LiPo]
I _o (48@V)	1.9A [48@V]
Inductance per phase (Winding Inductance)	0.079 [±0.03] mH
R _{ph} (Wind Resistance per phase)	0.08 [±0.03] Ω
Stator Poles	24S
Magnetic Poles	28P
Bearings	Triple 626 -2Z Sealed
Stick Out Shaft Diameter	ø 6 mm
Motor Diameter	ø 68.8 mm
Motor Length	39 mm
Motor Weight	363 g ± 5 g
Mount Pattern @ 90 deg	4 X M4 @ PCD ø 30 mm with ↓ 10 mm
Compatible Propeller Size	22 " inch to 24 " inch
Propeller Mount Pattern	4 X M3 @ PCD ø 20 mm ↓ 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)

6015 PRO 170 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	21 x 7.3 CF_FX				
ESC	60 A 12 S			Power Supply / Battery	2 x TB - 22000 mAh 12S
Test Date:	01-11-2023	Humidity:	34 %	Environmental Temp:	28 ° C Cross-winds: Mild

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	49.3	2.1	2354	1215	0.29	103.5	11.7	56 ° C [@70% 10 min Constant]
1400 - 40	49.1	5.2	3221	2247	0.56	255.3	8.8	
1500 - 50	48.9	9.3	3944	3404	0.86	454.8	7.5	
1600 - 60	48.6	14.1	4569	4470	1.12	685.3	6.5	
1700 - 70	48.2	21	5167	5750	1.46	1012.2	5.7	
1800 - 80	47.7	29.1	5719	7135	1.82	1388.1	5.1	60 ° C [Maximum]
1900 - 90	47.1	40.3	6217	8564	2.24	1898.1	4.5	
1950 - 95	46.8	47.7	6518	9446	2.47	2232.4	4.2	
2000 - 100	46.8	46.5	6557	9187	2.38	2176.2	4.2	

Propeller	22 x 6.6 CF_FX				
ESC	60A 12S			Power Supply / Battery	2 x TB - 22000 mAh 12S
Test Date:	01-11-2023	Humidity:	34 %	Environmental Temp:	28 ° C Cross-winds: Mild

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	49.9	1.7	2371	1044	0.26	84.8	12.3	60 ° C [@70% 10 min Constant]
1400 - 40	49.7	4.1	3230	1993	0.48	203.8	9.8	
1500 - 50	49.5	7.7	3986	3126	0.74	381.2	8.2	
1600 - 60	49.2	12.3	4625	4302	1.02	605.2	7.1	
1700 - 70	48.9	18.1	5250	5458	1.31	885.1	6.2	
1800 - 80	48.4	25.6	5827	6878	1.64	1239.0	5.6	63 ° C [Maximum]
1900 - 90	47.9	35.1	6404	8249	1.99	1681.3	4.9	
1950 - 95	47.5	41.9	6657	9257	2.25	1990.3	4.7	
2000 - 100	47.5	41.7	6721	9175	2.23	1980.8	4.6	

Propeller	VT 2308 CFRP_FP				
ESC	60A 12S			Power Supply / Battery	2 x TB - 22000 mAh 12S
Test Date:	20-03-2024	Humidity:	22 %	Environmental Temp:	38 ° C Cross-winds: Mild

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	49.4	3.2	2194	1617	0.54	158.1	10.2	83 ° C [@70% 10 min Constant]
1400 - 40	49.2	7.4	2903	2909	0.93	364.1	8.0	
1500 - 50	48.9	14.1	3552	4404	1.39	689.5	6.4	
1600 - 60	48.5	21	4084	5676	1.74	1018.5	5.6	
1700 - 70	48.1	28.8	4565	6716	2.07	1385.3	4.8	
1800 - 80	47.7	37.9	5019	7640	2.38	1807.8	4.2	103 ° C [Maximum]
1900 - 90	47.1	49	5456	8227	2.65	2307.9	3.6	
1950 - 95	46.7	59.4	5692	8655	2.88	2774.0	3.1	
2000 - 100	46.7	59.3	5687	8519	2.88	2769.3	3.1	

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