

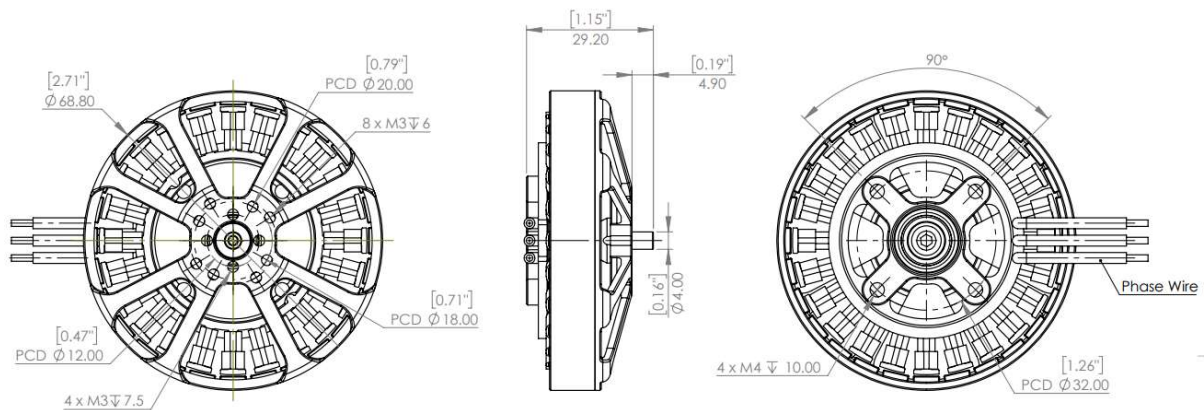
6008 SL

340 KV

MOTOR SPECIFICATIONS

Kv (Motor Velocity Constant)	340 RPM/V
Kt (Motor Torque Constant)	0.033 Nm/A @ 4766 RPM
Maximum Continuous Current*	35A [180s]
Maximum Continuous Power*	825W [180s]
Power Density	3.40 W/g [Rated], 7.10 W/g [Maximum]
Voltage Range	22V - 25V [6S LiPo]
I _o (XX@V)	1.7A [24@V]
Inductance per phase (Winding Inductance)	0.046 [$\approx$ 0.03] mH
R _{ph} (Wind Resistance per phase)	0.05 [$\approx$ 0.03] Ω
Stator Poles	24S
Magnetic Poles	28P
Bearings	Dual 696-ZZ Sealed
Stick Out Shaft Diameter	$\varnothing$ 4 mm
Motor Diameter	$\varnothing$ 68.8 mm
Motor Length	24.3 mm
Motor Weight	170 g $\pm$ 5 g
Mount Pattern @ 90 deg	4 X M3 @ PCD $\varnothing$ 30 mm $\downarrow$ 5 mm
Compatible Propeller Size	20 " inch to 22 " inch
Propeller Mount Pattern	12 X M3 @ PCD $\varnothing$ 12 mm $\varnothing$ 18 mm, $\varnothing$ 20 mm with $\downarrow$ 5 mm

2D CAD



6008 SL 340 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	18 x 6.1 CF_FX					
ESC	60A 6S					Power Supply / Battery
						TB - 22000mAh 6S
Test Date:	09-06-2025	Humidity:	46 %	Environmental Temp:	30 ° C	Cross-winds: Mild

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	24.9	2.4	2702	699	0.15	60.2	11.6	38 ° C [@70% 10 min Constant]
1400 - 40	24.8	4.6	3383	1119	0.24	112.9	9.9	
1500 - 50	24.7	7.2	3980	1569	0.34	178.0	8.8	
1600 - 60	24.5	10.2	4485	1961	0.42	249.7	7.8	
1700 - 70	24.3	14.1	5012	2435	0.52	343.4	7.0	
1800 - 80	24.1	18.8	5490	2930	0.63	454.4	6.4	40 ° C [Maximum]
1900 - 90	23.9	24.3	5973	3425	0.73	580.1	5.9	
1950 - 95	23.7	27.6	6194	3735	0.8	655.0	5.7	
2000 - 100	23.6	32.1	6458	4163	0.9	755.4	5.5	

Propeller	22 x 6.6 CF_FX					Power Supply / Battery	TB - 22000mAh 6S
ESC	60A 6S						
Test Date:	03-04-2025	Humidity:	100 %	Environmental Temp:	32 ° C	Cross-winds: Mild	

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	24.9	1.2	1673	490	0.13	29.9	16.4	62 ° C [@70% 10 min Constant]
1400 - 40	24.8	3.9	2460	1118	0.3	96.7	11.6	
1500 - 50	24.6	8.6	3201	1921	0.51	211.6	9.1	
1600 - 60	24.3	15.9	3828	2784	0.75	386.4	7.2	
1700 - 70	23.9	24.2	4335	3627	0.95	578.4	6.3	
1800 - 80	23.5	35.1	4766	4471	1.17	824.9	5.4	68 ° C [Maximum]
1900 - 90	23	47.9	5110	5169	1.34	1101.7	4.7	
1950 - 95	22.8	52.7	5231	5423	1.41	1201.6	4.5	
2000 - 100	22.8	53	5209	5410	1.42	1208.4	4.5	