

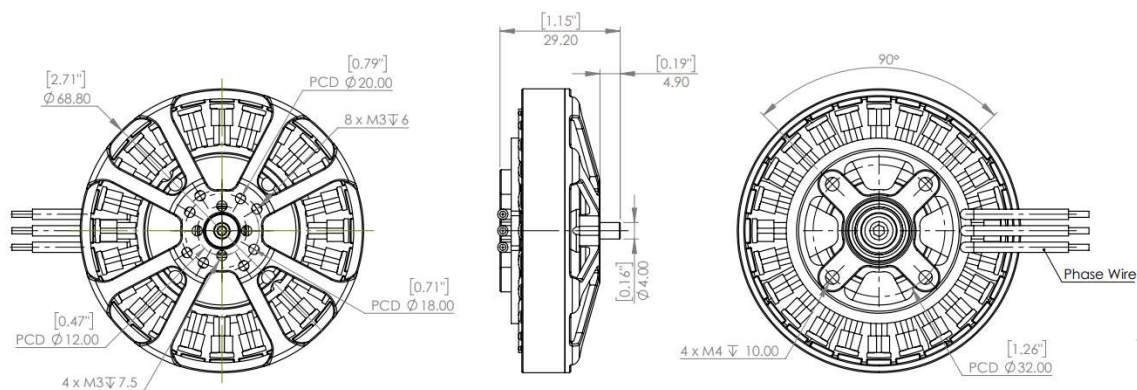
6008 SL

160 KV

MOTOR SPECIFICATIONS

Kv (Motor Velocity Constant)	160 RPM/V
Kt (Motor Torque Constant)	0.0826 Nm/A @ 4474 RPM
Maximum Continuous Current*	12.7A [180s]
Maximum Continuous Power*	630 W [180s]
Power Density	3.705 W/g [Rated], 8.958 W/g [Maximum]
Voltage Range	48V - 50V [12S LiPo]
I _o (XX@V)	1.5A [48@V]
Inductance per phase (Winding Inductance)	0.209 [≈ 0.03] mH
R _{ph} (Wind Resistance per phase)	0.18 [≈ 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 23 " 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 160 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	22 x 6.6 CF_FX					
ESC	60A 12S			Power Supply / Battery	2 x TB - 22000mAh 6S	
Test Date:	20-06-2025	Humidity:	60 %	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	50	1.9	2498	1069	0.31	97.5	11.0	43 ° C [@70% 10 min Constant]
1400 - 40	49.9	3.9	3111	1736	0.5	196.8	8.8	
1500 - 50	49.8	6.4	3614	2356	0.69	317.2	7.4	
1600 - 60	49.7	9.3	4080	2983	0.87	463.1	6.4	
1700 - 70	49.5	12.7	4474	3624	1.05	630.9	5.7	
1800 - 80	49.3	17.3	4871	4255	1.22	853.4	5.0	48 ° C [Maximum]
1900 - 90	49	23.6	5164	4851	1.42	1157.9	4.2	
1950 - 95	48.9	26.9	5257	5064	1.49	1313.6	3.9	
2000 - 100	48.7	31.3	5430	5396	1.61	1523.8	3.5	