

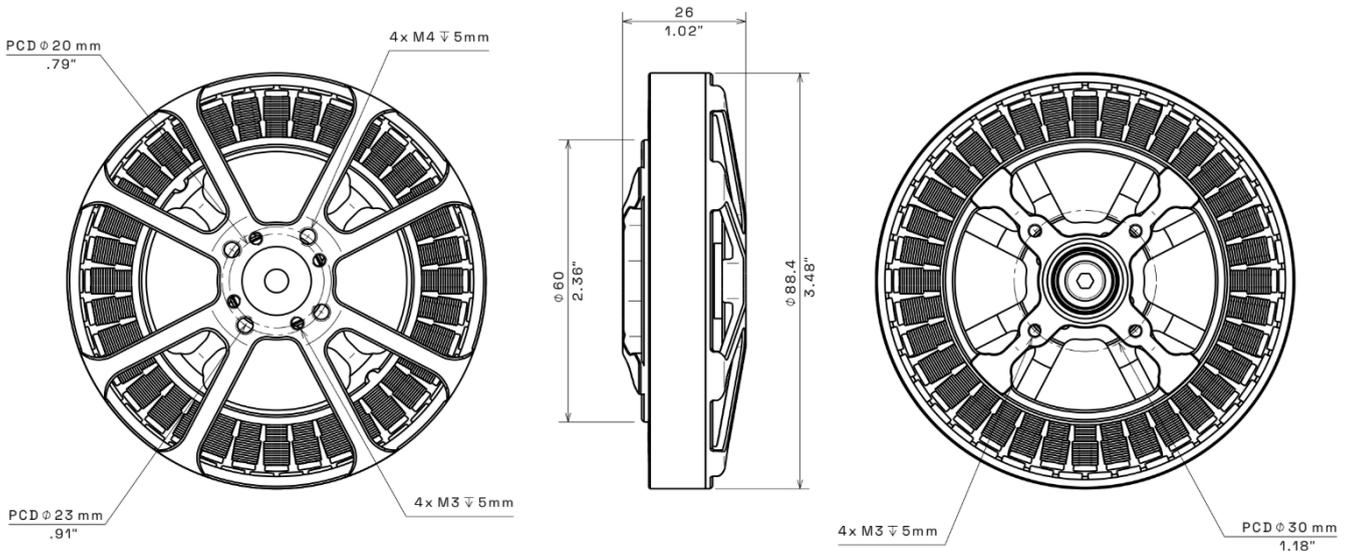
# 8008 SL

## 230 KV

### MOTOR SPECIFICATIONS

Kv (Motor Velocity Constant)	230 RPM/V
Kt (Motor Torque Constant)	0.0457 Nm/A @ 2623 RPM
Maximum Continuous Current*	34A (180s)
Maximum Continuous Power*	780W (180s)
Power Density	3.71 W/g (Rated), 6.38 W/g (Maximum)
Voltage Range	22V - 25V ( 6S LiPo)
I <sub>o</sub> (24@V)	6A (24@V)
Inductance per phase (Winding Inductance)	0.033 [ ≈0.03] mH
R <sub>ph</sub> (Wind Resistance per phase)	0.05 [ ≈0.03] Ω
Stator Poles	36S
Magnetic Poles	42P
Bearings	Dual 619 /8-2Z Sealed
Stick Out Shaft Diameter	∅ 0 mm
Motor Diameter	∅ 88.4 mm
Motor Length	26 mm
Motor Weight	210 g ± 5 g
Mount Pattern @ 90 deg	4 X M3 @ PCD ∅ 30 mm ↓ 5 mm
Compatible Propeller Size	26 " inch to 28 " inch
Propeller Mount Pattern	4 X M3 @ PCD ∅ 20 mm, 4 X M4 @ PCD ∅ 23 mm with ↓ 5 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]

## 8008 SL 230 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.

<b>Propeller</b>	TM 28 x 8.4 CF_FX			<b>Power Supply / Battery</b>	TB - 22000 mAh 6S	
<b>ESC</b>	HW 80A 6S			<b>Environmental Temp:</b>	35 ° C	<b>Cross-winds:</b> Mild
<b>Test Date:</b>	03-05-2024	<b>Humidity:</b>	36 %			

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	24.9	2.1	1149	578	0.21	52.3	11.1	56 ° C [@70% 10 min Constant]
1400 - 40	24.7	5.1	1620	1172	0.4	126.0	9.3	
1500 - 50	24.5	10.5	2130	2125	0.7	257.3	8.3	
1600 - 60	24.2	17.4	2535	3085	0.99	421.1	7.3	
1700 - 70	23.9	25.4	2878	3988	1.26	607.1	6.6	
1800 - 80	23.5	35.2	3145	4934	1.55	827.2	6.0	60 ° C [Maximum]
1900 - 90	23.1	45.3	3405	5568	1.78	1046.4	5.3	
1950 - 95	22.9	49.9	3468	6066	1.89	1142.7	5.3	
2000 - 100	22.9	49.5	3473	5993	1.87	1133.6	5.3	

<b>Propeller</b>	TM 30 x 10.5 CF_FX			<b>Power Supply / Battery</b>	TB - 22000 mAh 6S	
<b>ESC</b>	HW 80A 6S			<b>Environmental Temp:</b>	35 ° C	<b>Cross-winds:</b> Mild
<b>Test Date:</b>	03-05-2024	<b>Humidity:</b>	36 %			

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	24.5	2.7	1065	898	0.33	66.2	13.6	55 ° C [@70% 10 min Constant]
1400 - 40	24.4	7.5	1539	1863	0.68	183.0	10.2	
1500 - 50	24.1	15	1950	2985	1.09	361.5	8.3	
1600 - 60	23.7	23.4	2232	4038	1.45	554.6	7.3	
1700 - 70	23.3	33.5	2475	4967	1.77	780.6	6.4	
1800 - 80	22.7	43.7	2623	5696	2	992.0	5.7	59 ° C [Maximum]
1900 - 90	22.2	56.4	2787	6430	2.26	1252.1	5.1	
1950 - 95	22.1	61.1	2836	6831	2.35	1350.3	5.1	
2000 - 100	22.1	60.7	2836	6817	2.32	1341.5	5.1	

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