

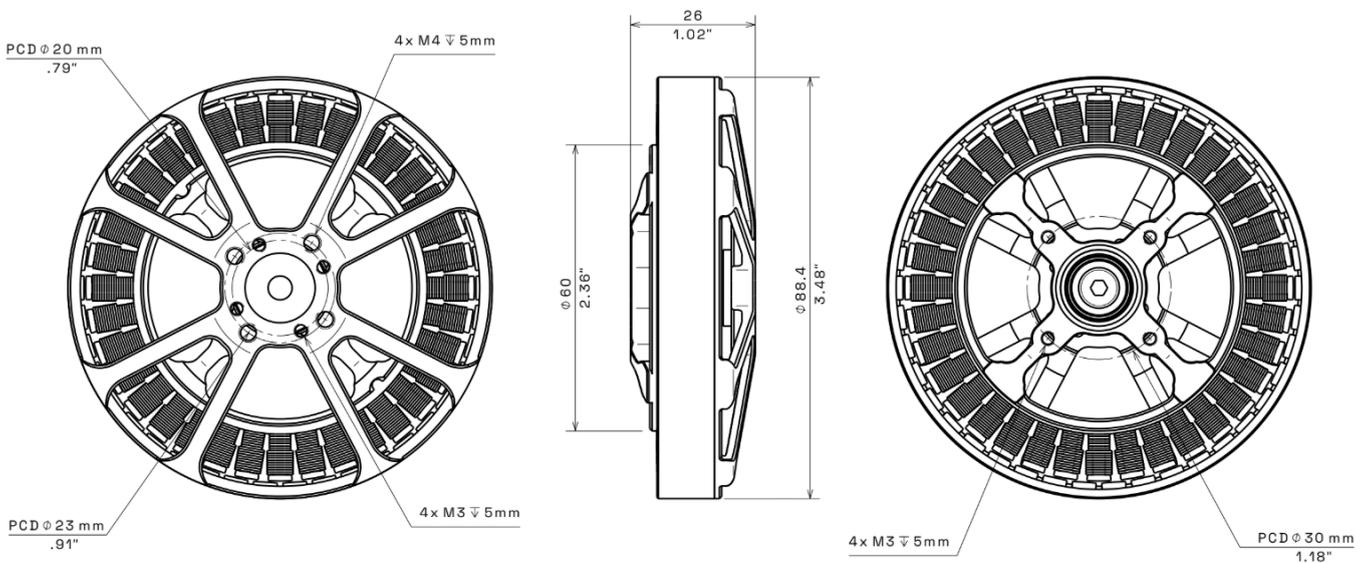
# 8008 SL

110 KV

## MOTOR SPECIFICATIONS

Kv (Motor Velocity Constant)	110 RPM/V
Kt (Motor Torque Constant)	0.118 Nm/A @ 2973 RPM
Maximum Continuous Current*	14A (180s)
Maximum Continuous Power*	666W (180s)
Power Density	3.8 W/g [Rated], 5.2 W/g [Maximum]
Voltage Range	44V - 50V [ 12S LiPo]
I <sub>o</sub> (48@V)	2A (48@V)
Inductance per phase (Winding Inductance)	0.129 [ ≈0.03] mH
R <sub>ph</sub> (Wind Resistance per phase)	0.2 [ ≈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 110 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 26 x 8.5 CF_FX			<b>Power Supply / Battery</b>	2 x TB - 22000 mAh 12S	
<b>ESC</b>	TM 60A 12S			<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	50.1	0.7	1351	475	0.21	35.1	13.5	61 ° C [@70% 10 min Constant]
1400 - 40	50	2	1882	1135	0.4	100.0	11.4	
1500 - 50	49.9	4.4	2428	2194	0.7	219.6	10.0	
1600 - 60	49.7	7.3	2895	3117	0.97	362.8	8.6	
1700 - 70	49.5	10.7	3299	3930	1.21	529.7	7.4	
1800 - 80	49.2	15.6	3681	5007	1.53	767.5	6.5	63 ° C [Maximum]
1900 - 90	48.9	21.4	4037	6079	1.83	1046.5	5.8	
1950 - 95	48.7	23.9	4133	6476	1.95	1163.9	5.6	
2000 - 100	48.7	24.1	4116	6487	1.97	1173.7	5.5	

<b>Propeller</b>	NM 26 CF_FX			<b>Power Supply / Battery</b>	2 x TB - 22000 mAh 12S	
<b>ESC</b>	TM 60A 12S			<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	50.1	0.8	1327	561	0.22	40.1	14.0	65 ° C [@70% 10 min Constant]
1400 - 40	50	2.2	1836	1274	0.44	110.0	11.6	
1500 - 50	49.9	4.7	2393	2368	0.73	234.5	10.1	
1600 - 60	49.7	8	2833	3465	1.02	397.6	8.7	
1700 - 70	49.4	11.6	3219	4304	1.27	573.0	7.5	
1800 - 80	49.2	16.3	3619	5336	1.58	802.0	6.7	69 ° C [Maximum]
1900 - 90	48.8	22.4	3951	6265	1.86	1093.1	5.7	
1950 - 95	48.7	24.9	4056	6569	1.98	1212.6	5.4	
2000 - 100	48.7	25	4044	6604	2.01	1217.5	5.4	

<b>Propeller</b>	TM 28 x 9.2 CF_FX			Propeller Not Recommended		<b>Power Supply / Battery</b>	2 x TB - 22000 mAh 12S	
<b>ESC</b>	TM 60A 12S			<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	50.1	0.9	1304	743	0.27	45.1	16.5	78 ° C + [@70% 10 min Constant]
1400 - 40	50	2.3	1778	1428	0.49	115.0	12.4	
1500 - 50	49.8	5.2	2318	2589	0.83	259.0	10.0	
1600 - 60	49.6	8.8	2757	3619	1.15	436.5	8.3	
1700 - 70	49.3	13	3108	4657	1.46	640.9	7.3	
1800 - 80	49	18.5	3430	5693	1.77	906.5	6.3	84 ° C + [Maximum]
1900 - 90	48.6	25.4	3689	6773	2.1	1234.4	5.5	
1950 - 95	48.4	27.9	3763	7135	2.21	1350.4	5.3	
2000 - 100	48.4	27.7	3764	7091	2.19	1340.7	5.3	

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