

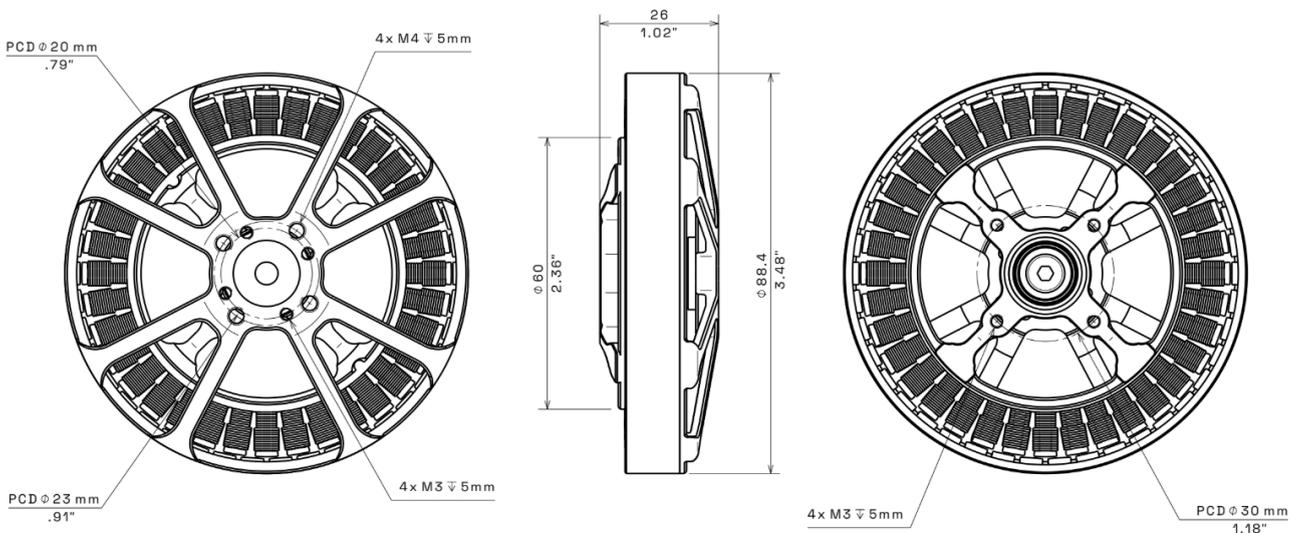
# 8008 SL

90 KV

## MOTOR SPECIFICATIONS

Kv (Motor Velocity Constant)	90 RPM/V
Kt (Motor Torque Constant)	0.139 Nm/A @ 2621 RPM
Maximum Continuous Current*	20A (180s)
Maximum Continuous Power*	966W (180s)
Power Density	4.01 W/g (Rated), 5.69 W/g (Maximum)
Voltage Range	44V - 50V ( 12S LiPo)
I <sub>o</sub> (48@V)	2A (48@V)
Inductance per phase (Winding Inductance)	0.17 [ ≈0.03] mH
R <sub>ph</sub> (Wind Resistance per phase)	0.22 [ ≈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	28 " inch to 30 " 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 90 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 30 x 10.5 CF_FX							
<b>ESC</b>	TM 60A 12S			<b>Power Supply / Battery</b>	2 x TB - 22000 mAh 12S			
<b>Test Date:</b>	09-10-2024	<b>Humidity:</b>	42 %	<b>Environmental Temp:</b>	28 ° C	<b>Cross-winds:</b> Mild		

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	50.1	0.9	1039	885	0.34	45.2	19.6	76 ° C [@70% 10 min Constant]
1400 - 40	50	2.3	1418	1658	0.62	115.2	14.4	
1500 - 50	49.9	4.9	1823	2806	1.02	243.5	11.5	
1600 - 60	49.7	8.6	2195	3994	1.42	426.6	9.4	
1700 - 70	49.5	13	2481	5218	1.83	639.6	8.2	
1800 - 80	49.2	18.1	2714	6206	2.17	883.3	7.0	81 ° C (Maximum)]
1900 - 90	48.9	24.2	2929	7105	2.52	1171.3	6.1	
1950 - 95	48.7	26.6	2990	7491	2.64	1282.1	5.8	
2000 - 100	48.7	26.6	2984	7407	2.63	1282.1	5.8	

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