VECTOR TECHNICS

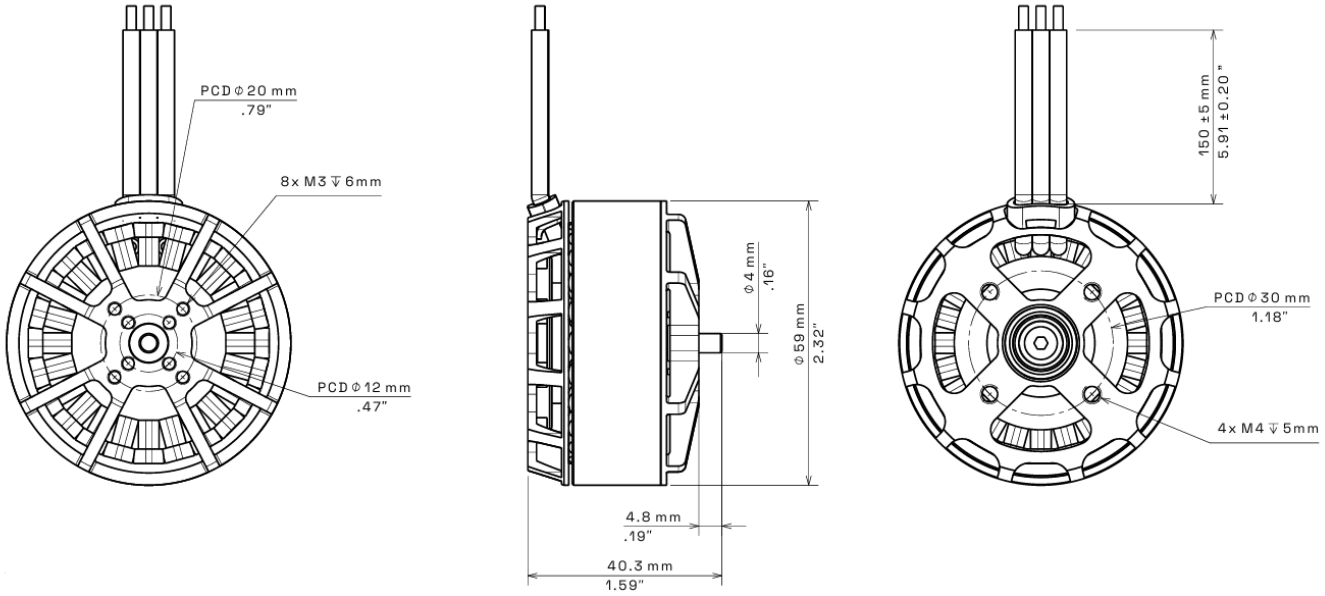
5215 FW

480 KV

MOTOR SPECIFICATIONS

Kv (Motor Velocity Constant)	480 RPM/V
Kt (Motor Torque Constant)	1.07 Nm/A @ 3561 RPM
Maximum Continuous Current*	45A (180s)
Maximum Continuous Power*	1073 W (180s)
Power Density	3.83 W/g (Rated), 6.203 W/g (Maximum)
Voltage Range	22V - 25V (6S LiPo)
Io (24@V)	5.51A (24@V)
Inductance per phase (Winding Inductance)	0.012 (≃0.03) mH
Rph (Wind Resistance per phase)	0.02(≃0.03) Ω
Stator Poles	24S
Magnetic Poles	22P
Bearings	Dual 696-ZZ Sealed
Stick Out Shaft Diameter	ø 4.8 mm
Motor Diameter	ø 35.5 mm
Motor Length	35.5 mm
Motor Weight	280 g ± 2 g
Mount Pattern @ 90 deg	4 X M4 @ PCD ø 30 mm ↧ 5 mm
Compatible Propeller Size	14 " inch to 16 " inch
Propeller Mount Pattern	8 X M3 @ PCD ø 12 mm, ø 20 mm ↧ 6 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)

5215 SL 480 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	15 x 10 EP_FX						
ESC	80A 6S			**Power Supply / Battery**	TB - 22000 mAh 6S		
Test Date:	12-04-2025	**Humidity:**	36 %	**Environmental Temp:**	38 ° C	**Cross-winds:**	Mild

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	25.2	2.6	2503	431	0.11	65.5	6.6	53 ° C (@70% 10 min Constant)
1400 - 40	25.1	6	3739	901	0.23	150.6	6.0	
1500 - 50	24.9	11.1	4804	1493	0.39	276.4	5.4	
1600 - 60	24.6	20.1	5923	2327	0.62	494.5	4.7	
1700 - 70	24.3	31.5	2920	2920	0.85	765.5	3.8	
1800 - 80	23.8	45.1	3561	3561	1.07	1073.4	3.3	58 ° C (Maximum)
1900 - 90	23.3	62.3	8200	3870	1.32	1451.6	2.7	
1950 - 95	23	71.1	8475	4063	1.43	1635.3	2.5	
2000 - 100	22.8	76.2	8612	4152	1.5	1737.4	2.4	