VECTOR TECHNICS

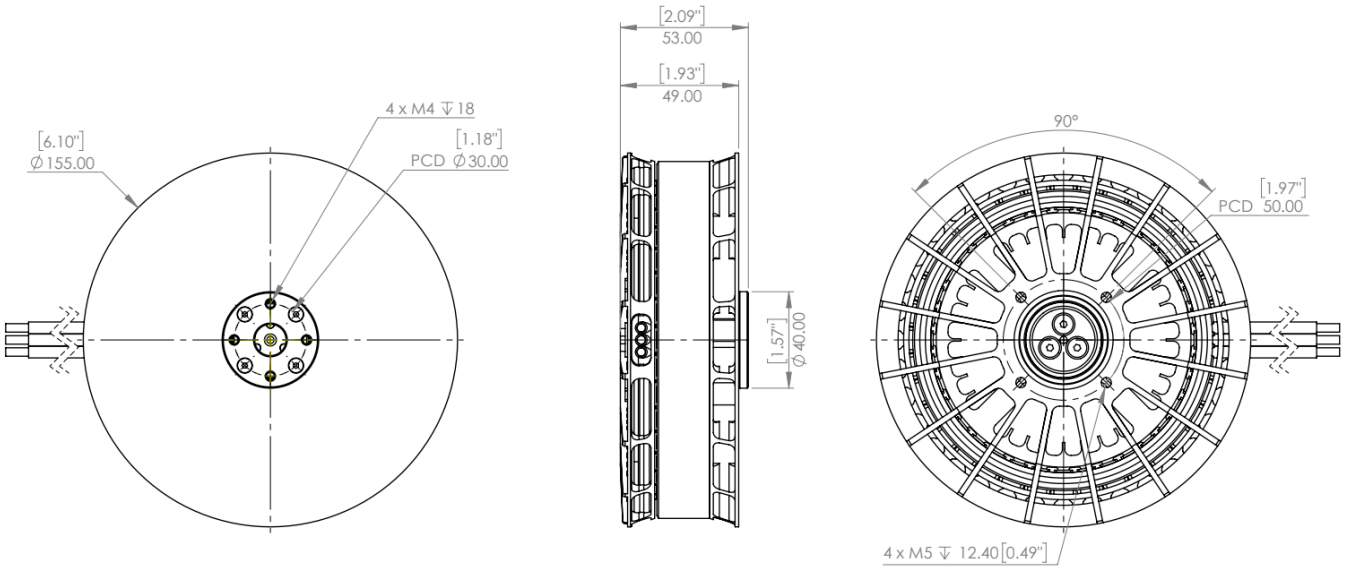
14015 PRO

80 KV

MOTOR SPECIFICATIONS

Kv (Motor Velocity Constant)	80 RPM/V
Kt (Motor Torque Constant)	0.185 Nm/A @ 1913 rpm
Maximum Continuous Current*	81 A (180 s)
Maximum Continuous Power*	3933 W (180 s)
Power Density	2.25 W/g (Rated), 3.07 W/g (Maximum)
Voltage Range	48 V to 72 V (12 S to 24S LiHv)
Io (48@V)	7.0 A (@48V)
Inductance per phase (Winding Inductance)	0.030 (≃0.03) mH
Rph (Wind Resistance per phase)	0.03 (≃0.03) Ω
Stator Poles	36 S (36 S 42 P)
Magnetic Poles	42 P (42 P 36 S)
Bearings	Dual, 61904 / 2RZ Sealed
Stick Out Shaft Diameter	ø 40 mm
Motor Diameter	ø 156 mm
Motor Length	49 mm
Motor Weight	1650 g ± 2%
Mount Pattern @ 90 deg	4 X M5 @ PCD ø 50 mm ↧ 12 mm
Compatible Propeller Size	Upto 48 " inch
Propeller Mount Pattern	4 X M4 @ PCD ø 30 mm ↧ 18 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)

14015 PRO 80 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	TM 47 x 18 CF_FX						
ESC	200 A 12 S - T-motor			**Power Supply / Battery**	Power Supply		
Test Date:	10-11-2023	**Humidity:**	44 %	**Environmental Temp:**	28 ° C	**Cross-winds:**	Mild

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (Kg)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	49.7	4.8	769	1.3	1.4	238.6	5.4	56 ° C (@70% 10 min Constant)
1400 - 40	49.6	12.2	1122	4.9	3.71	605.1	8.1	
1500 - 50	49.4	22.2	1392	8.5	5.53	1096.7	7.8	
1600 - 60	48.7	38.3	1668	12.4	8.1	1865.2	6.6	
1700 - 70	47.8	57.7	1908	16.6	10.7	2758.1	6.0	
1800 - 80	46.3	81.8	2098	21.4	12.91	3787.3	5.7	62 ° C (Maximum)
1900 - 90	46.3	104.4	2257	26.2	15.55	4833.7	5.4	
1950 - 95	45.7	116.8	2316	27.7	16.78	5337.8	5.2	
2000 - 100	44.5	120.6	2351	29.2	17.47	5366.7	5.4	

Propeller	TM 40 x 18 CF_FX						
ESC	TM 200A 14S			**Power Supply / Battery**	XX - 00000 mAh OS		
Test Date:	04-08-2025	**Humidity:**	50 %	**Environmental Temp:**	28 ° C	**Cross-winds:**	Mild

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	57.3	6.8	1207	3129	1.49	387.7	8.1	55 ° C (@70% 10 min Constant)
1400 - 40	57.6	12.4	1588	597	2.6	716.2	8.3	
1500 - 50	57.5	21.5	1969	9335	4.07	1238.3	7.5	
1600 - 60	56.6	34.4	2358	13788	5.73	1948.1	7.1	
1700 - 70	55.7	50.4	2676	17253	7.6	2807.6	6.1	
1800 - 80	54.9	69	2974	20028	9.36	3790.4	5.3	61 ° C (Maximum)
1900 - 90	53.2	91.1	3238	24464	11.32	4849.8	5.0	
1950 - 95	53.2	103.9	3372	27579	12.29	5524.6	5.0	
2000 - 100	53.2	103.5	3375	28040	12.39	5504.9	5.0	

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