

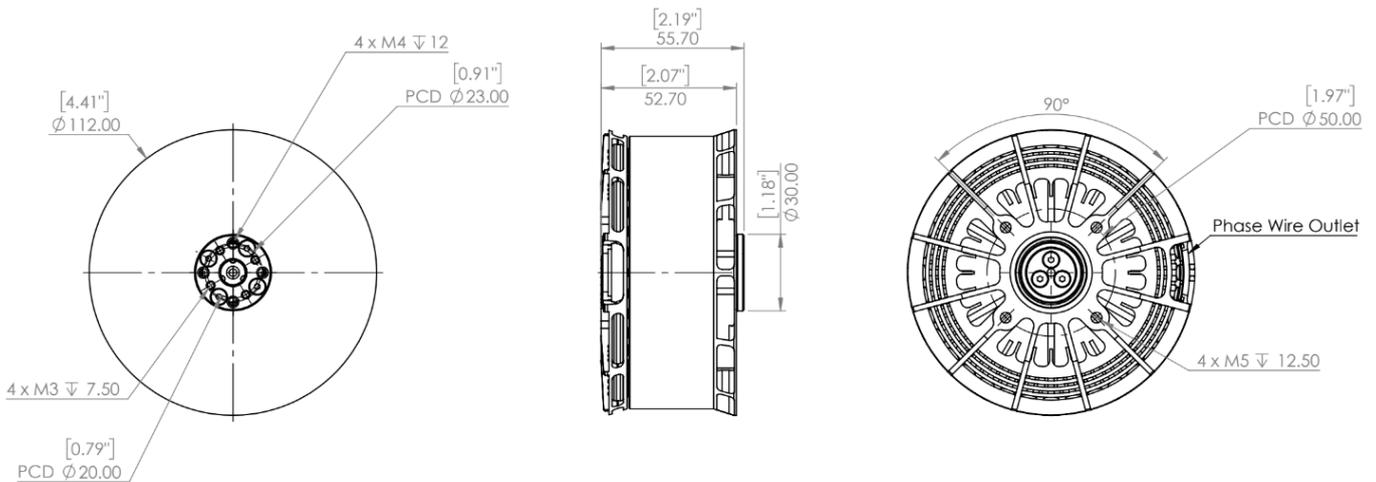
10025 PRO

160 KV

MOTOR SPECIFICATIONS

Kv (Motor Velocity Constant)	160 RPM/V
Kt (Motor Torque Constant)	0.0758 Nm/A @ 4484 RPM
Maximum Continuous Current*	89 A (180s)
Maximum Continuous Power*	4070 W (180s)
Power Density	4.11 W/g [Rated], 6.51 W/g [Maximum]
Voltage Range	44V - 50V [12S LiPo]
I _o (48@V)	14.5A (48@V)
Inductance per phase (Winding Inductance)	0.00831 [≈0.03] mH
R _{ph} (Wind Resistance per phase)	0.008 [≈0.03] Ω
Stator Poles	36 S
Magnetic Poles	42 P
Bearings	Dual 6902-2Z Sealed
Stick Out Shaft Diameter	∅ 30 mm
Motor Diameter	∅ 112 mm
Motor Length	52.7 mm
Motor Weight	1030 g ± 2%
Mount Pattern @ 90 deg	4 X M5 @ PCD ∅ 50 mm ↓ 12.5 mm
Compatible Propeller Size	30 " inch to 34 " inch
Propeller Mount Pattern	4 X M3 @ PCD ∅ 20 mm ↓ 7.5 mm , 4 X M4 @ PCD ∅ 23 mm ↓ 12 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]

10025 PRO 160 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	MZ 30 x 10 CF_FX			Power Supply / Battery	2 * TB - 22000 mAh 12S	
ESC	TM 200A 12S FLAME			Environmental Temp:	30 ° C	Cross-winds: Moderate
Test Date:	27-05-2025	Humidity:	83 %			

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	49.6	11.5	2228	3911	1.4	570.4	6.9	68 ° C [@70% 10 min Constant]
1400 - 40	49.1	22.8	2959	6794	2.45	1119.5	6.1	
1500 - 50	48.4	38.9	3506	10169	3.75	1882.8	5.4	
1600 - 60	47.6	57	3994	13171	4.89	2713.2	4.9	
1700 - 70	46.5	80.3	4439	16126	6.21	3734.0	4.3	
1800 - 80	45.2	108.1	4791	19499	7.48	4886.1	4.0	70 ° C [Maximum]
1900 - 90	43.8	137	5121	22068	8.62	6000.6	3.7	
1950 - 95	43	152.8	5236	23207	9.11	6570.4	3.5	
2000 - 100	42.1	170.4	5336	24586	9.82	7173.8	3.4	

Propeller	NW 30 CF_FX			Power Supply / Battery	2 * TB - 22000 mAh 12S	
ESC	TM 200A 12S FLAME			Environmental Temp:	30 ° C	Cross-winds: Moderate
Test Date:	27-05-2025	Humidity:	83 %			

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	49.7	11.6	2300	3825	1.43	576.5	6.6	66 ° C [@70% 10 min Constant]
1400 - 40	49.2	21.9	3003	6528	2.36	1077.5	6.1	
1500 - 50	48.5	35.1	3610	9225	3.33	1702.4	5.4	
1600 - 60	47.8	51.7	4132	12282	4.31	2471.3	5.0	
1700 - 70	47	70.6	4635	14871	5.29	3318.2	4.5	
1800 - 80	45.9	91.6	5067	17163	6.24	4204.4	4.1	70 ° C [Maximum]
1900 - 90	44.7	117.1	5481	19690	7.23	5234.4	3.8	
1950 - 95	44	131.9	5649	21047	7.78	5803.6	3.6	
2000 - 100	43.5	142.7	5814	21717	8.14	6207.5	3.5	

Propeller	TM 30 x 10.5 CF_FX			Power Supply / Battery	2 * TB - 22000 mAh 12S	
ESC	TM 200A 12S FLAME			Environmental Temp:	30 ° C	Cross-winds: Moderate
Test Date:	27-05-2025	Humidity:	83 %			

PWM - Throttle%	Voltage	Current (A)	RPM	Thrust (g)	Torque (N*m)	Electrical Power (W)	Efficiency	Temp (Celcius)
1300 - 30	49.8	12.1	2272	3919	1.45	601.5	6.5	67 ° C [@70% 10 min Constant]
1400 - 40	49.3	22.8	2946	6738	2.43	1124.8	6.0	
1500 - 50	48.5	37.5	3526	9837	3.58	1822.0	5.4	
1600 - 60	47.6	55.8	4044	12872	4.72	2659.9	4.8	
1700 - 70	46.5	77.4	4484	15889	5.87	3603.0	4.4	
1800 - 80	45.4	100.8	4854	18865	6.99	4571.7	4.1	72 ° C [Maximum]
1900 - 90	44	128.3	5202	21830	8.08	5642.9	3.9	
1950 - 95	43.2	143.8	5327	23525	8.76	6203.9	3.8	
2000 - 100	42.4	158.2	5469	24590	9.11	6709.5	3.7	

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