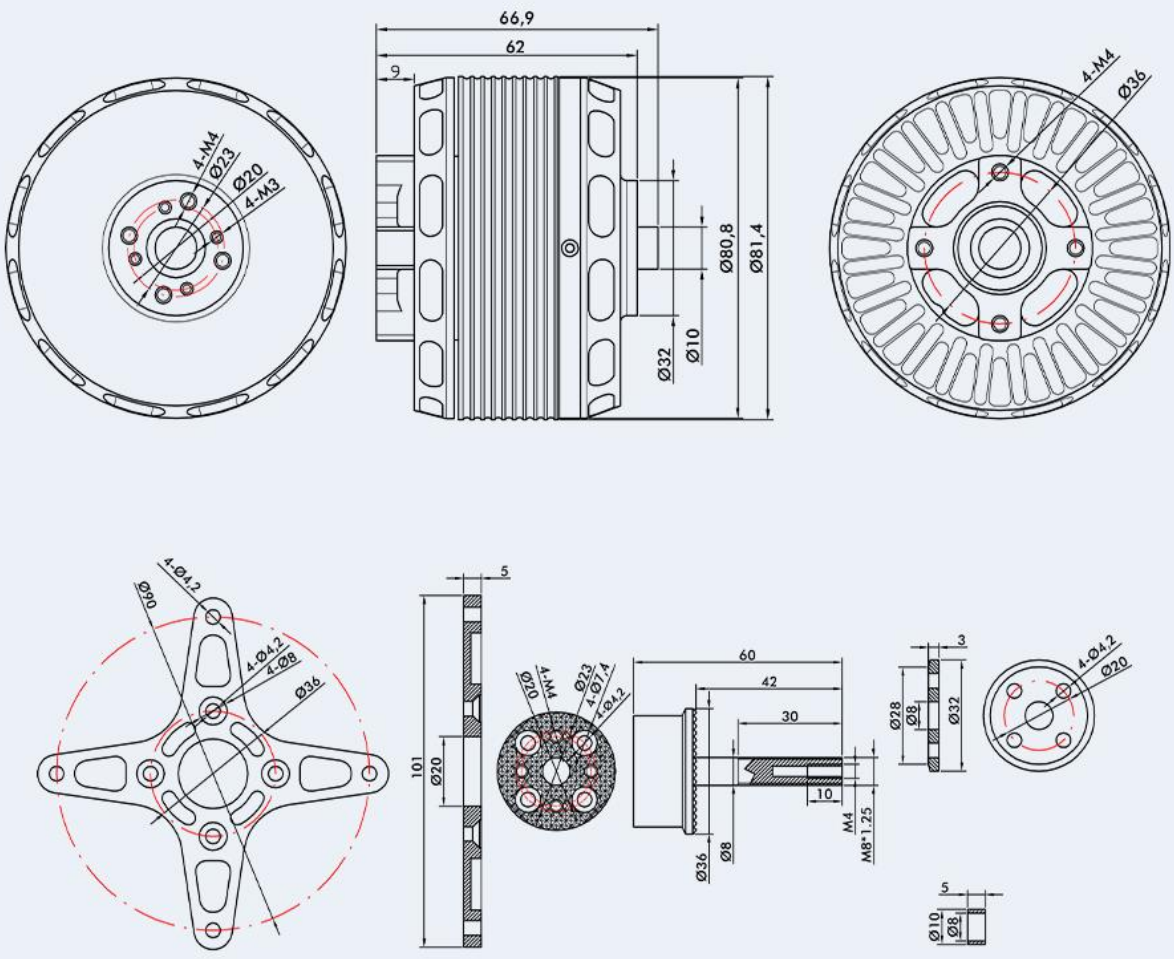
T-Motor AT7224 40cc 160kv

Product Drawing



Specifications

Test Item	Long Shaft KV160	Weight (Incl. Cable)	780g
Motor Dimensions	Φ81.4*66.9mm	Internal Resistance	24mΩ
Lead	Enameled Wire 100mm	Configuration	24N22P
Shaft Diameter	IN : 10mm OUT : 10mm	Rated Voltage(Lipo)	10-12S
Idle Current(10V)	3.1A	Peak Current(180s)	105A
Max. Power(180s)	4800W/12S		

Continued below

Test Report										
Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (℃)
	21*10	40%	44.31	4.80	212.87	2893	0.539	1766	8.30	80 (Ambient Temperature:/)
		45%	44.27	6.25	276.86	3225	0.624	2212	7.99	
		50%	44.22	8.79	388.73	3629	0.795	2814	7.25	
		55%	44.16	11.35	501.16	4000	0.965	3429	6.84	
		60%	44.11	13.79	608.49	4326	1.146	4022	6.61	
		65%	44.04	16.93	745.62	4639	1.293	4622	6.20	
		70%	43.95	20.86	916.88	4988	1.501	5365	5.85	
		75%	43.83	26.42	1158.06	5373	1.773	6280	5.42	
		80%	43.71	32.04	1400.68	5745	2.061	7144	5.10	
		90%	43.46	44.15	1918.79	6360	2.592	8933	4.66	
		100%	43.16	58.20	2511.99	6896	3.114	10676	4.25	
	21*10	40%	47.93	5.34	255.98	3105	0.597	2045	7.99	/
		45%	47.89	6.96	333.46	3434	0.704	2501	7.50	
		50%	47.83	9.69	463.32	3876	0.896	3196	6.90	
		55%	47.73	13.03	621.96	4291	1.121	3935	6.33	
		60%	47.71	15.53	741.01	4633	1.280	4539	6.13	
		65%	47.64	18.81	896.24	4960	1.464	5209	5.81	
		70%	47.56	23.04	1095.60	5339	1.732	6096	5.56	
		75%	47.37	31.09	1472.55	5816	2.125	7315	4.97	
		80%	47.25	36.56	1727.56	6144	2.395	8247	4.77	
		90%	46.95	50.68	2379.68	6789	2.998	10299	4.33	
		100%	46.51	71.24	3313.26	7109	3.711	12494	3.77	
	22*10	40%	44.41	5.70	253.30	2850	0.635	2071	8.18	88 (Ambient Temperature:/)
		45%	44.37	7.49	332.34	3183	0.809	2608	7.85	
		50%	44.30	10.25	454.21	3580	1.022	3269	7.20	
		55%	44.23	13.82	611.41	3967	1.215	4002	6.55	
		60%	44.15	17.18	758.35	4291	1.425	4723	6.23	
		65%	44.10	20.38	898.65	4591	1.631	5427	6.04	
		70%	43.97	26.02	1144.24	4934	1.923	6373	5.57	
		75%	43.85	32.03	1404.60	5312	2.209	7432	5.29	
		80%	43.70	39.36	1720.07	5669	2.627	8549	4.97	
		90%	43.39	54.11	2347.54	6261	3.240	10526	4.48	
		100%	43.05	70.38	3029.80	6780	3.864	12496	4.12	
	22*10	40%	47.99	6.29	301.96	3057	0.732	2426	8.03	/
		45%	47.96	8.27	396.60	3412	0.928	2997	7.56	
		50%	47.86	11.62	556.40	3831	1.138	3770	6.78	
		55%	47.80	15.20	726.46	4237	1.372	4613	6.35	
		60%	47.72	18.93	903.28	4585	1.623	5446	6.03	
		65%	47.64	23.17	1103.76	4909	1.903	6315	5.72	
		70%	47.50	29.04	1379.32	5278	2.178	7317	5.31	
		75%	47.32	38.04	1800.27	5747	2.716	8753	4.86	
		80%	47.17	45.06	2125.28	6063	3.013	9742	4.58	
		90%	46.83	61.51	2880.40	6678	3.723	12037	4.18	
		100%	46.42	81.47	3781.47	7213	4.499	14447	3.82	
	23*10	40%	37.07	4.85	179.66	2404	0.462	1631	9.08	78 (Ambient Temperature:/)
		45%	37.02	6.54	242.14	2685	0.585	2052	8.48	
		50%	36.96	9.11	336.65	3038	0.769	2642	7.85	
		55%	36.89	12.16	448.81	3349	0.961	3262	7.27	
		60%	36.83	15.32	564.24	3617	1.110	3832	6.79	
		65%	36.78	18.07	664.53	3889	1.284	4471	6.73	
		70%	36.70	22.32	819.19	4174	1.499	5225	6.38	
		75%	36.57	27.90	1020.42	4475	1.739	6058	5.94	
		80%	36.48	32.61	1189.50	4732	1.954	6810	5.72	
		90%	36.22	45.16	1635.72	5231	2.439	8469	5.18	
		100%	35.90	60.17	2160.31	5722	2.880	10050	4.65	
		40%	42.00	5.81	243.81	2691	0.603	2016	8.27	
		45%	41.95	7.64	320.56	3000	0.754	2542	7.93	
		50%	41.87	10.82	452.90	3383	0.959	3269	7.22	
		55%	41.80	14.73	615.52	3738	1.166	4019	6.53	

AT7224 KV160	23*10	60%	41.72	18.23	760.66	4044	1.387	4821	6.34	/
		65%	41.64	22.10	920.32	4322	1.622	5609	6.10	
		70%	41.53	27.22	1130.31	4648	1.888	6460	5.72	
		75%	41.41	33.49	1386.94	4979	2.176	7520	5.42	
		80%	41.26	40.27	1661.69	5261	2.458	8508	5.12	
		90%	40.92	57.16	2338.69	5858	3.045	10599	4.53	
		100%	40.56	74.08	3004.27	6335	3.587	12486	4.16	
	23*10	40%	44.24	6.26	276.99	2816	0.678	2252	8.13	86 (Ambient Temperature:/)
		45%	44.19	8.38	370.42	3139	0.844	2845	7.68	
		50%	44.13	11.56	510.31	3531	1.074	3628	7.11	
		55%	44.03	15.77	694.46	3904	1.332	4481	6.45	
		60%	43.96	19.48	856.35	4223	1.560	5292	6.18	
		65%	43.86	23.88	1047.27	4528	1.782	6082	5.81	
		70%	43.73	29.77	1301.86	4857	2.071	7066	5.43	
		75%	43.60	36.62	1596.54	5209	2.383	8176	5.12	
		80%	43.42	45.32	1967.73	5551	2.717	9386	4.77	
		90%	43.08	61.82	2663.09	6121	3.306	11502	4.32	
		100%	42.69	80.29	3427.47	6620	3.893	13628	3.98	
	23*10	40%	47.87	7.06	338.01	3017	0.803	2627	7.77	/
		45%	47.82	9.31	445.30	3356	0.982	3303	7.42	
		50%	47.73	13.36	637.77	3770	1.263	4227	6.63	
		55%	47.63	17.84	849.98	4161	1.565	5234	6.16	
		60%	47.54	22.28	1059.42	4501	1.835	6196	5.85	
		65%	47.44	26.97	1279.61	4821	2.089	7098	5.55	
		70%	47.32	33.44	1582.04	5181	2.397	8181	5.17	
		75%	47.07	44.46	2092.95	5622	2.829	9776	4.67	
		80%	46.93	51.86	2433.90	5924	3.145	10876	4.47	
		90%	46.52	71.24	3313.98	6511	3.845	13337	4.02	
		100%	46.05	93.17	4290.46	7028	4.524	15732	3.67	
	24*10	40%	36.93	5.21	192.58	2386	0.570	1862	9.67	74 (Ambient Temperature:/)
		45%	36.89	6.92	255.28	2664	0.681	2302	9.02	
		50%	36.84	9.64	355.22	3015	0.873	2934	8.26	
		55%	36.74	13.30	488.44	3326	1.033	3780	7.74	
		60%	36.70	16.06	589.29	3596	1.193	4344	7.37	
		65%	36.62	19.43	711.53	3858	1.352	4885	6.87	
		70%	36.52	24.25	885.55	4148	1.592	5768	6.51	
		75%	36.40	29.96	1090.57	4437	1.924	6881	6.31	
		80%	36.29	35.28	1280.42	4692	2.201	7698	6.01	
		90%	36.02	48.54	1748.45	5181	2.844	9416	5.39	
		100%	35.66	65.48	2335.30	5638	3.170	11213	4.80	
	24*10	40%	41.92	6.22	260.94	2669	0.670	2305	8.84	/
		45%	41.88	8.24	345.20	2974	0.836	2861	8.29	
		50%	41.80	11.85	495.18	3358	1.052	3835	7.75	
		55%	41.69	16.69	695.92	3706	1.255	4654	6.69	
		60%	41.63	19.73	821.19	4013	1.489	5499	6.70	
		65%	41.55	23.65	982.63	4301	1.806	6395	6.51	
		70%	41.43	29.46	1220.57	4610	2.118	7433	6.09	
		75%	41.27	36.74	1516.18	4941	2.505	8536	5.63	
		80%	41.13	43.86	1804.14	5214	2.847	9557	5.30	
		90%	40.74	62.47	2544.92	5789	3.372	11807	4.64	
		100%	40.37	80.20	3237.87	6253	4.009	13916	4.30	
	24*10	40%	44.34	6.77	300.20	2807	0.740	2613	8.70	87 (Ambient Temperature:/)
		45%	44.29	8.94	395.88	3127	0.944	3245	8.20	
		50%	44.21	12.58	556.16	3525	1.212	4090	7.36	
		55%	44.11	17.25	760.67	3891	1.472	5007	6.58	
		60%	44.03	21.25	935.48	4212	1.654	6050	6.47	
		65%	43.94	25.61	1125.34	4504	2.027	7004	6.22	
		70%	43.80	32.06	1404.22	4834	2.404	8133	5.79	
		75%	43.63	40.20	1753.94	5179	2.782	9373	5.34	
		80%	43.42	50.11	2176.02	5508	2.915	10542	4.84	
		90%	43.05	68.04	2928.99	6063	3.795	12990	4.43	
		100%	42.61	88.56	3773.52	6529	4.475	15404	4.08	
	24*10	40%	47.89	7.54	361.11	2999	0.868	2966	8.21	/
		45%	47.84	9.91	474.10	3342	1.020	3817	8.05	
		50%	47.73	14.38	686.33	3750	1.305	4762	6.94	
		55%	47.64	19.08	908.85	4140	1.587	5961	6.56	
		60%	47.53	24.19	1149.86	4493	2.032	7061	6.14	
		65%	47.43	29.23	1386.23	4797	2.337	8049	5.81	
		70%	47.26	36.77	1737.59	5144	2.697	9239	5.32	

		75%	47.03	48.38	2275.34	5581	3.058	10855	4.77
		80%	46.85	56.71	2657.00	5864	3.529	12134	4.57
		90%	46.41	77.55	3599.39	6434	4.378	14926	4.15
		100%	45.90	101.25	4647.79	6921	5.246	17536	3.77

Note: Motor temperature is motor surface temperature @100% throttle running 3mins.
(Date above based on benchtest are for reference only, comparion with that of other motor types is not recommended.)

Contents

Motor x 1

Parts Bag x 1

Please check that your package contains all the above items before use, If something is missing, please contact online customer service or leave message to onlinesales@tmotor.com