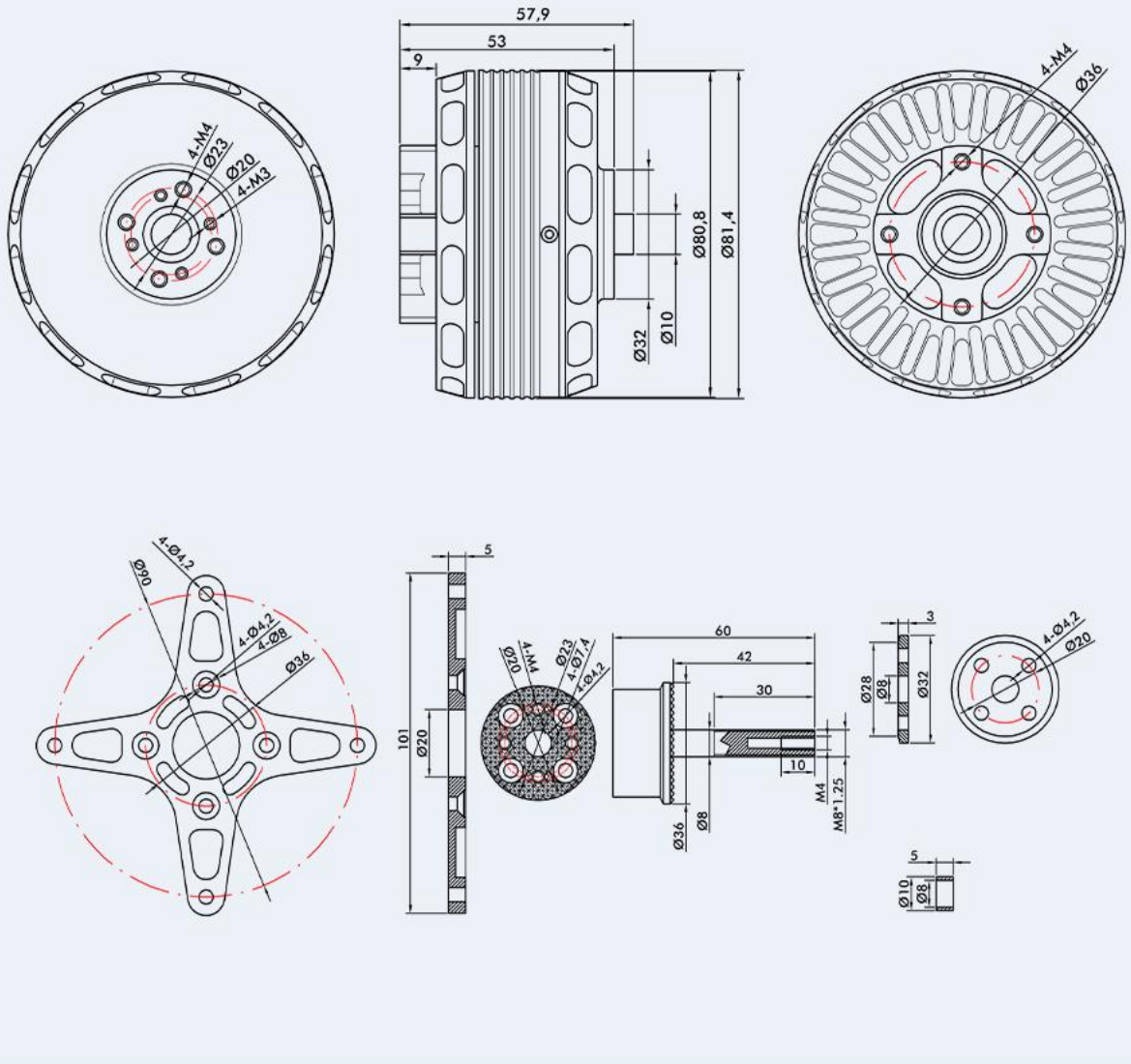
T-Motor AT7215 30cc

Product Drawing



Specifications

Test Item	Long Shaft KV200	Weight (Incl. Cable)	550g
Motor Dimensions	Φ81.4*57.9mm	Internal Resistance	27mΩ
Lead	Enameled Wire 100mm	Configuration	24N22P
Shaft Diameter	IN：10mm OUT：10mm	Rated Voltage(Lipo)	10-12S
Idle Current(10V)	2.4A	Peak Current(180s)	95A
Max. Power(180s)	4400W/12S		

Test Report

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (℃)
	19*10	40%	44.25	5.64	249.81	3494	0.532	1833	7.34	/
		45%	44.22	7.41	327.75	3890	0.650	2312	7.05	
		50%	44.15	10.26	453.08	4356	0.795	2878	6.35	
		55%	44.08	13.28	585.57	4813	0.946	3477	5.94	
		60%	44.02	16.59	730.16	5206	1.110	4086	5.60	
		65%	43.91	21.80	957.40	5698	1.337	4903	5.12	
		70%	43.79	27.16	1189.47	6128	1.562	5710	4.80	
		75%	43.66	33.60	1466.85	6547	1.821	6582	4.49	
		80%	43.53	39.60	1723.40	6882	2.050	7366	4.27	
		90%	43.23	53.83	2327.01	7599	2.537	8911	3.83	
		100%	42.84	71.55	3065.09	8208	3.126	10555	3.44	
	19*10	40%	47.85	6.24	298.61	3754	0.628	2144	7.18	97 (Ambient Temperature:/)
		45%	47.81	8.24	394.17	4168	0.745	2664	6.76	
		50%	47.74	11.29	538.84	4655	0.896	3309	6.14	
		55%	47.65	15.05	717.02	5130	1.070	4028	5.62	
		60%	47.54	20.64	981.02	5702	1.326	4961	5.06	
		65%	47.44	24.88	1180.30	6099	1.540	5646	4.78	
		70%	47.31	31.04	1468.57	6539	1.845	6599	4.49	
		75%	47.16	38.37	1809.84	6967	2.164	7656	4.23	
		80%	47.01	45.66	2146.37	7338	2.450	8595	4.00	
		90%	46.64	63.09	2942.14	8077	3.018	10449	3.55	
		100%	46.17	84.64	3907.52	8681	3.758	11572	2.96	

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AT7215 KV200	20*10	40%	36.92	4.81	177.64	2959	0.453	1561	8.79	/
		45%	36.89	6.29	231.88	3295	0.549	1932	8.33	
		50%	36.83	8.69	319.91	3712	0.676	2434	7.61	
		55%	36.78	11.26	414.10	4096	0.794	2926	7.07	
		60%	36.72	14.08	517.13	4437	0.917	3411	6.60	
		65%	36.65	16.99	622.72	4739	1.046	3919	6.29	
		70%	36.57	21.17	773.99	5108	1.221	4533	5.86	
		75%	36.44	27.50	1002.10	5548	1.465	5452	5.44	
		80%	36.32	32.85	1192.97	5848	1.677	6155	5.16	
		90%	36.06	44.99	1622.41	6452	2.089	7553	4.66	
		100%	35.78	58.37	2088.34	6984	2.483	8906	4.26	
	20*10	40%	41.86	5.71	239.01	3308	0.544	1730	8.03	83 (Ambient Temperature:/)
		45%	41.81	7.58	316.78	3679	0.654	2387	7.54	
		50%	41.75	10.44	435.94	4124	0.807	3008	6.90	
		55%	41.69	13.63	568.04	4544	0.967	3649	6.43	
		60%	41.60	17.16	713.87	4917	1.121	4278	5.99	
		65%	41.54	20.64	857.26	5262	1.298	4954	5.78	
		70%	41.37	28.11	1162.88	5778	1.597	5987	5.15	
		75%	41.24	34.52	1423.40	6165	1.847	6856	4.82	
		80%	41.10	41.04	1686.80	6491	2.095	7725	4.58	
		90%	40.78	56.18	2291.12	7147	2.593	9423	4.11	
		100%	40.42	72.81	2943.12	7726	3.082	11037	3.75	
	20*10	40%	44.27	6.15	272.19	3468	0.617	2145	7.88	/
		45%	44.23	8.16	360.87	3862	0.744	2677	7.42	
		50%	44.16	11.30	499.16	4322	0.910	3363	6.74	
		55%	44.06	15.29	673.65	4748	1.083	4093	6.08	
		60%	43.99	18.76	825.33	5157	1.253	4769	5.78	
		65%	43.86	25.02	1097.33	5641	1.535	5773	5.26	
		70%	43.74	30.86	1349.86	6051	1.813	6646	4.93	
		75%	43.59	37.90	1652.12	6466	2.108	7630	4.62	
		80%	43.45	44.57	1936.48	6803	2.350	8479	4.38	
		90%	43.08	61.70	2658.50	7474	2.901	10381	3.90	
		100%	42.67	80.63	3440.97	8063	3.439	12188	3.54	
	20*10	40%	47.89	6.97	333.95	3713	0.692	2464	7.38	115 (Ambient Temperature:/)
		45%	47.85	9.16	438.13	4124	0.834	3066	7.00	
		50%	47.77	12.53	598.59	4602	1.024	3842	6.42	
		55%	47.69	16.62	792.70	5082	1.227	4629	5.84	
		60%	47.54	23.11	1098.68	5647	1.527	5721	5.21	
		65%	47.44	28.18	1336.89	6031	1.785	6549	4.90	
		70%	47.30	34.76	1644.07	6468	2.095	7535	4.58	
		75%	47.12	43.28	2039.31	6884	2.431	8706	4.27	
		80%	46.95	51.19	2403.45	7247	2.714	9693	4.03	
		90%	46.52	71.10	3307.89	7946	3.354	11886	3.59	
		100%	46.02	93.67	4310.69	8522	3.978	13850	3.21	
	21*10	40%	36.93	5.36	198.12	2917	0.528	1822	9.20	/
		45%	36.88	7.22	266.16	3244	0.655	2286	8.59	
		50%	36.82	10.16	374.05	3654	0.856	2920	7.81	
		55%	36.75	13.47	495.18	4025	1.031	3542	7.16	
		60%	36.67	17.10	626.99	4360	1.221	4198	6.70	
		65%	36.59	20.60	753.95	4664	1.361	4762	6.32	
		70%	36.48	25.92	945.36	5010	1.561	5492	5.81	
		75%	36.36	31.98	1162.81	5380	1.810	6361	5.47	
		80%	36.20	39.17	1418.05	5722	2.072	7214	5.09	
		90%	35.89	53.72	1928.39	6296	2.607	8808	4.57	
		100%	35.54	70.32	2499.01	6784	3.102	10457	4.18	
	21*10	40%	41.86	6.55	274.18	3247	0.621	2290	8.35	121 (Ambient Temperature:/)
		45%	41.81	8.77	366.60	3613	0.754	2847	7.77	
		50%	41.74	12.04	502.43	4054	0.930	3561	7.09	
		55%	41.66	16.10	670.60	4466	1.156	4341	6.48	
		60%	41.56	20.57	854.77	4845	1.378	5126	6.00	
		65%	41.46	24.84	1029.64	5168	1.585	5836	5.67	
		70%	41.28	33.57	1385.77	5658	1.981	7058	5.09	
		75%	41.12	41.07	1688.61	6026	2.284	8047	4.77	
		80%	40.96	48.72	1995.51	6332	2.568	8992	4.51	
		90%	40.57	67.08	2721.25	6930	3.167	10998	4.04	
		100%	40.12	87.84	3523.62	7450	3.739	12869	3.65	

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.)

Continued below

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (℃)
AT7215 KV220	19*10	40%	43.93	6.27	275.62	3667	0.492	1956	7.10	89 (Ambient Temperature:/)
		45%	43.88	8.37	367.29	4086	0.612	2469	6.72	
		50%	43.82	11.23	492.26	4542	0.769	3066	6.23	
		55%	43.72	15.46	675.76	5037	0.948	3795	5.62	
		60%	43.62	20.91	911.80	5583	1.173	4709	5.16	
		65%	43.50	25.56	1111.85	5972	1.349	5408	4.86	
		70%	43.39	31.66	1373.76	6408	1.579	6277	4.57	
		75%	43.25	38.52	1665.86	6839	1.798	7139	4.29	
		80%	43.11	45.43	1958.91	7206	2.019	7991	4.08	
		90%	42.66	62.78	2678.19	7909	2.511	9688	3.62	
		100%	42.23	84.85	3582.90	8476	3.102	10729	2.99	
	19*10	40%	47.54	7.13	338.88	3976	0.574	2301	6.79	/
		45%	47.48	9.50	451.09	4414	0.718	2879	6.38	
		50%	47.40	12.85	609.30	4901	0.899	3584	5.88	
		55%	47.25	18.81	888.73	5513	1.144	4582	5.16	
		60%	47.16	23.96	1129.80	5999	1.360	5435	4.81	
		65%	46.92	29.01	1361.27	6410	1.569	6257	4.60	
		70%	46.78	35.26	1649.36	6840	1.806	7181	4.35	
		75%	46.64	43.92	2048.81	7301	2.086	8218	4.01	
		80%	46.47	52.44	2436.89	7698	2.353	9185	3.77	
		90%	46.04	74.62	3435.64	8381	3.016	10521	3.06	
		100%	45.62	98.87	4510.54	9002	3.611	11865	2.63	
	20*10	40%	36.63	5.48	200.90	3130	0.417	1648	8.20	/
		45%	36.58	7.23	264.33	3484	0.518	2068	7.82	
		50%	36.53	9.91	361.83	3904	0.651	2609	7.21	
		55%	36.44	13.37	487.14	4302	0.798	3207	6.58	
		60%	36.36	16.56	602.21	4649	0.942	3782	6.28	
		65%	36.35	19.42	705.98	4965	1.074	4300	6.09	
		70%	36.18	24.65	892.04	5335	1.241	4998	5.60	
		75%	36.02	32.28	1162.80	5803	1.482	5953	5.12	
		80%	35.80	37.57	1344.80	6109	1.642	6588	4.90	
		90%	35.57	50.95	1812.52	6738	2.018	8054	4.44	
		100%	35.27	66.48	2344.83	7277	2.405	9551	4.07	
	20*10	40%	41.55	6.52	270.85	3502	0.523	2091	7.72	83 (Ambient Temperature:/)
		45%	41.50	8.64	358.67	3887	0.650	2607	7.27	
		50%	41.42	11.86	491.36	4341	0.815	3279	6.67	
		55%	41.30	15.88	655.99	4777	0.994	3995	6.09	
		60%	41.22	19.80	816.29	5168	1.167	4702	5.76	
		65%	40.99	25.92	1062.24	5642	1.392	5585	5.26	
		70%	40.86	32.05	1309.67	6041	1.611	6459	4.93	
		75%	40.72	39.64	1614.06	6446	1.855	7418	4.60	
		80%	40.61	46.34	1881.77	6785	2.066	8248	4.38	
		90%	40.26	63.70	2564.62	7455	2.555	10122	3.95	
		100%	39.89	83.10	3314.87	8027	3.031	11884	3.59	
	20*10	40%	43.91	7.02	308.23	3669	0.570	2279	7.40	87 (Ambient Temperature:/)
		45%	43.87	9.22	404.34	4071	0.710	2844	7.03	
		50%	43.75	12.76	558.30	4535	0.887	3565	6.39	
		55%	43.64	17.56	766.54	5000	1.082	4346	5.67	
		60%	43.52	23.53	1024.26	5544	1.338	5367	5.24	
		65%	43.31	28.33	1226.94	5913	1.530	6114	4.98	
		70%	43.18	35.07	1514.33	6339	1.775	7065	4.67	
		75%	43.04	42.91	1846.71	6753	2.033	8106	4.39	
		80%	42.90	50.75	2177.07	7107	2.279	9042	4.15	
		90%	42.52	69.80	2967.96	7789	2.814	11019	3.71	
		100%	42.10	91.96	3871.53	8365	3.363	12900	3.33	

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20*10	40%	47.54	7.87	373.90	3926	0.659	2626	7.02	/
	45%	47.48	10.47	496.90	4344	0.809	3261	6.56	
	50%	47.40	14.16	671.27	4820	1.008	4054	6.04	
	55%	47.19	20.06	946.89	5358	1.249	5025	5.31	
	60%	46.98	26.61	1250.14	5900	1.536	6179	4.94	
	65%	46.82	32.71	1531.71	6320	1.775	7102	4.64	
	70%	46.72	39.99	1868.31	6759	2.049	8184	4.38	
	75%	46.56	49.17	2289.33	7188	2.351	9348	4.08	
	80%	46.36	59.21	2745.12	7570	2.655	10505	3.83	
	90%	45.96	80.46	3697.56	8264	3.239	12511	3.38	
	100%	45.48	106.60	4848.68	8859	3.872	14307	2.95	
21*10	40%	36.58	6.27	229.40	3085	0.500	1925	8.39	84 (Ambient Temperature:/)
	45%	36.52	8.34	304.46	3427	0.624	2416	7.94	
	50%	36.43	11.87	432.36	3839	0.793	3076	7.11	
	55%	36.35	15.49	563.21	4224	0.966	3743	6.65	
	60%	36.26	19.70	714.16	4576	1.140	4422	6.19	
	65%	36.15	23.55	851.35	4881	1.294	5030	5.91	
	70%	35.94	29.26	1051.67	5228	1.505	5849	5.56	
	75%	35.76	38.20	1365.89	5665	1.781	6923	5.07	
	80%	35.62	45.04	1604.00	5958	1.995	7740	4.83	
	90%	35.32	61.32	2165.99	6541	2.442	9407	4.34	
	100%	34.98	78.82	2756.77	7040	2.857	10944	3.97	
21*10	40%	41.53	7.47	310.30	3442	0.622	2419	7.80	/
	45%	41.46	9.94	412.31	3822	0.778	3025	7.34	
	50%	41.30	13.73	567.18	4247	0.970	3763	6.63	
	55%	41.13	18.57	763.90	4678	1.192	4635	6.07	
	60%	41.01	23.67	970.90	5063	1.409	5465	5.63	
	65%	40.85	31.16	1272.87	5534	1.688	6568	5.16	
	70%	40.76	38.06	1551.35	5916	1.941	7540	4.86	
	75%	40.55	46.97	1904.43	6293	2.223	8605	4.52	
	80%	40.40	55.28	2233.35	6608	2.479	9542	4.27	
	90%	40.03	75.93	3039.83	7216	3.042	11585	3.81	
	100%	39.59	99.67	3945.57	7726	3.615	13551	3.43	

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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