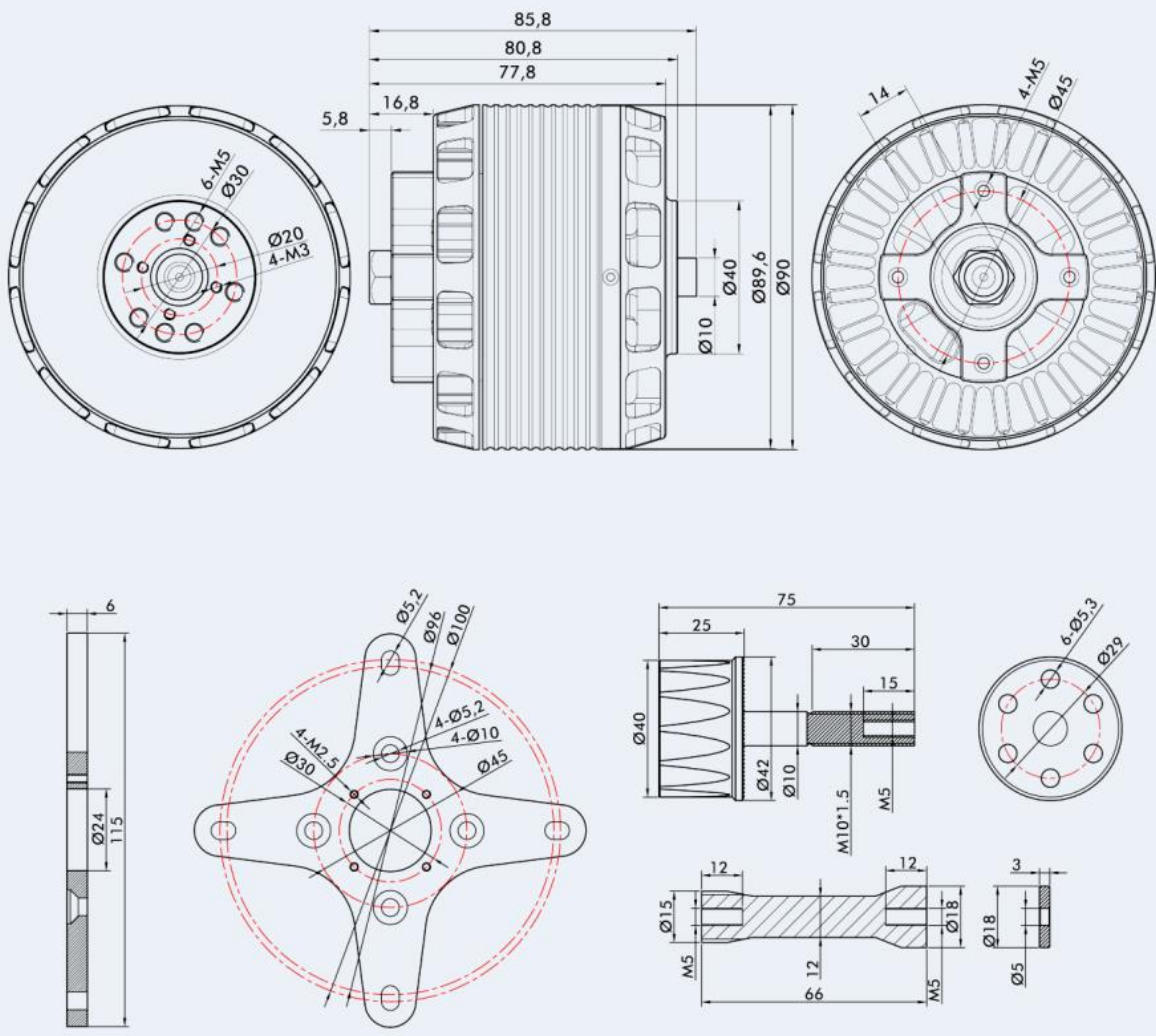


Product Drawing



Specifications

Test Item	KV160	Weight (Incl. Cable)	1110g
Motor Dimensions	Φ90*80.8mm	Internal Resistance	10.5mΩ
Lead	Wound Wire Outlet 100mm	Configuration	24N28P
Shaft Diameter	IN: 12mm OUT: 10mm	Rated Voltage(LiPo)	10-14S
Idle Current(10V)	4.5A	Peak Current(180s)	135A, 155A
Max. Power(180s)	5600W/12S, 7500W/14S		
Test Item	KV190	Weight (Incl. Cable)	1115g
Motor Dimensions	Φ90*80.8mm	Internal Resistance	8mΩ
Lead	Wound Wire Outlet 100mm	Configuration	24N28P
Shaft Diameter	IN: 12mm OUT: 10mm	Rated Voltage(LiPo)	10-12S
Idle Current(10V)	5.2A	Peak Current(180s)	165A
Max. Power(180s)	6800W/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 (°C)
AT8030 KV160	25*10	40%	44.35	12.08	535.61	2969	1.134	3665	6.84	72°C
		45%	44.19	14.87	657.18	3182	1.338	4338	6.60	
		50%	43.90	17.75	779.14	3454	1.573	5154	6.61	
		55%	43.85	21.99	964.31	3727	1.873	6103	6.33	
		60%	44.04	26.20	1154.02	4030	2.161	7157	6.20	
		65%	43.75	32.70	1430.68	4333	2.525	8319	5.81	
		70%	43.79	39.31	1721.42	4606	2.910	9607	5.58	
		75%	43.42	45.50	1975.71	4878	3.328	10976	5.56	
		80%	43.26	54.00	2335.99	5181	3.724	12342	5.28	
		85%	42.91	63.78	2736.83	5424	4.173	13757	5.03	
		90%	42.68	73.92	3154.88	5696	4.601	15126	4.79	
		100%	42.14	94.69	3990.09	6151	5.478	17986	4.51	
	26*12	40%	44.25	13.47	596.23	2757	1.445	4329	7.26	87°C
		45%	44.12	17.21	759.19	3060	1.776	5349	7.05	
		50%	44.08	22.17	977.47	3333	2.129	6454	6.60	
		55%	43.92	27.64	1214.04	3636	2.536	7655	6.31	
		60%	43.73	33.30	1456.34	3939	2.964	8966	6.16	
		65%	43.52	41.46	1804.47	4212	3.413	10381	5.75	
		70%	43.30	49.03	2123.06	4484	3.916	11910	5.61	
		75%	43.00	59.47	2557.04	4727	4.408	13402	5.24	
		80%	42.77	70.68	3022.80	5000	4.933	15057	4.98	
		85%	42.55	78.50	3340.14	5242	5.446	16586	4.97	
		90%	42.34	92.54	3918.34	5454	5.992	18128	4.63	
		100%	41.50	118.78	4929.33	5878	7.062	21122	4.29	
	27*12	40%	44.40	14.57	646.71	2727	1.605	4751	7.35	105°C
		45%	44.04	19.26	848.10	3030	2.012	5942	7.01	
		50%	44.18	24.50	1082.43	3333	2.440	7237	6.69	
		55%	43.79	30.31	1327.47	3575	2.889	8617	6.49	
		60%	43.74	37.88	1656.99	3848	3.371	10045	6.06	
		65%	43.33	45.00	1949.95	4121	3.863	11552	5.92	
		70%	43.11	55.35	2385.93	4394	4.430	13241	5.55	
		75%	43.06	64.35	2770.99	4666	4.976	14872	5.37	
		80%	42.44	76.40	3242.33	4909	5.585	16602	5.12	
		85%	42.32	91.31	3864.26	5151	6.174	18346	4.75	
		90%	41.91	104.84	4393.66	5363	6.762	20101	4.58	
		100%	41.11	132.60	5451.19	5757	7.918	23374	4.29	
	24*10	40%	51.88	13.92	722.33	3454	1.348	4490	6.22	89°C
		45%	51.83	16.87	874.41	3727	1.573	5289	6.05	
		50%	51.87	20.75	1076.14	4000	1.862	6289	5.84	
		55%	51.82	25.39	1315.60	4333	2.194	7414	5.64	
		60%	51.53	30.48	1570.51	4666	2.579	8656	5.51	
		65%	51.38	37.36	1919.69	5060	2.985	10131	5.28	
70%		50.89	45.94	2337.93	5363	3.456	11782	5.04		
75%		50.77	55.26	2805.73	5727	3.959	13400	4.78		
80%		50.49	64.67	3265.09	6030	4.462	15092	4.62		
85%		50.40	73.61	3710.12	6302	4.911	16654	4.49		
90%		50.05	84.74	4241.32	6605	5.425	18266	4.31		
100%		49.42	107.82	5328.67	7121	6.420	21240	3.99		
25*10	40%	51.96	14.54	755.24	3363	1.477	4763	6.31	107°C	
	45%	51.68	17.65	911.95	3666	1.744	5723	6.28		
	50%	51.53	22.55	1162.11	3969	2.097	6885	5.92		
	55%	51.65	27.75	1433.50	4303	2.493	8226	5.74		
	60%	51.25	34.07	1745.99	4606	2.921	9643	5.52		
	65%	51.28	42.45	2176.96	4969	3.392	11221	5.15		
	70%	50.87	49.65	2525.88	5303	3.916	12921	5.12		
	75%	50.53	60.46	3054.81	5606	4.462	14702	4.81		
	80%	50.53	69.88	3531.05	5939	5.008	16458	4.66		
	85%	50.16	81.96	4110.96	6212	5.553	18201	4.43		
	90%	49.83	95.88	4777.70	6454	6.120	19949	4.18		
	100%	49.06	121.53	5962.41	6969	7.287	23158	3.88		

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

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (°C)
		40%	44.17	15.71	693.82	3394	1.263	4234	6.10	
		45%	44.29	19.25	852.47	3666	1.509	5056	5.93	
		50%	44.07	23.14	1019.95	3969	1.776	6019	5.90	

AT8030 KV190	24*10	55%	43.89	28.73	1261.11	4272	2.119	7196	5.71	89°C
		60%	43.72	35.63	1557.68	4606	2.472	8351	5.36	
		65%	43.39	43.12	1870.78	4939	2.857	9702	5.19	
		70%	43.16	50.96	2199.40	5272	3.296	11213	5.10	
		75%	43.08	62.34	2685.71	5575	3.756	12756	4.75	
		80%	42.71	72.88	3112.66	5909	4.194	14259	4.58	
		85%	42.60	83.43	3553.94	6151	4.687	15821	4.45	
		90%	42.22	94.58	3993.36	6424	5.136	17268	4.32	
		100%	41.68	122.00	5085.05	6939	6.078	20207	3.97	
	25*10	40%	44.29	16.49	730.49	3333	1.423	4613	6.32	102°C
		45%	44.12	20.42	900.95	3606	1.691	5550	6.16	
		50%	44.07	25.19	1110.30	3909	2.033	6685	6.02	
		55%	43.85	31.80	1394.59	4242	2.397	7927	5.68	
		60%	43.66	38.88	1697.61	4575	2.836	9367	5.52	
		65%	43.22	47.95	2072.41	4909	3.296	10897	5.26	
		70%	43.06	57.19	2462.66	5212	3.777	12552	5.10	
		75%	42.77	67.65	2893.24	5515	4.280	14156	4.89	
		80%	42.47	79.24	3365.48	5818	4.783	15831	4.70	
		85%	42.20	93.56	3948.43	6090	5.286	17416	4.41	
90%		41.97	105.22	4416.22	6333	5.778	18941	4.29		
100%	40.96	135.87	5565.41	6787	6.837	21988	3.95			

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

Contents



Motor*1



Parts Bag*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