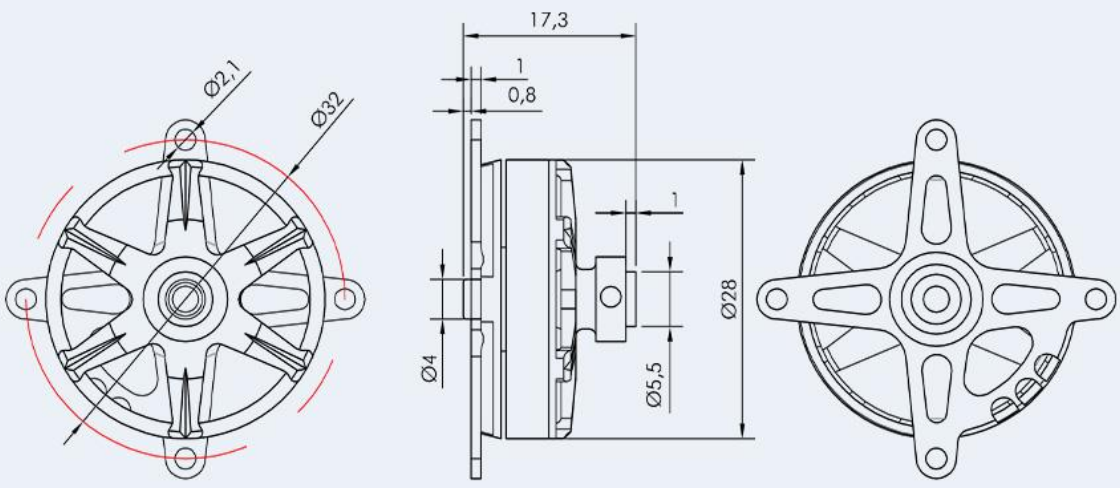
T-Motor AS2303

Product Drawing



Specifications

Test Item	KV1500 Short Shaft	Weight (Incl. Cable)	17g
Motor Dimensions	Short Shaft Φ28*16.5mm	Internal Resistance	251mΩ
Lead	Enameled Wire 40mm	Configuration	12N14P
Shaft Diameter	IN : 4mm OUT : 3mm	Rated Voltage(Lipo)	2-3S
Idle Current(10V)	0.3A	Peak Current(180s)	10A
Max. Power(180s)	108W	Recommendation	/

Test Item	KV1800 Short Shaft	Weight (Incl. Cable)	17g
Motor Dimensions	Short Shaft Φ28*16.5mm	Internal Resistance	236mΩ
Lead	Enameled Wire40mm	Configuration	12N14P
Shaft Diameter	IN : 4mm OUT : 3mm	Rated Voltage(Lipo)	2-3S
Idle Current(10V)	0.5A	Peak Current(180s)	10A
Max. Power(180s)	67W	Recommendation	/

Test Item	KV2300 Short Shaft	Weight (Incl. Cable)	17g
Motor Dimensions	Short Shaft Φ28*16.5mm	Internal Resistance	122mΩ
Lead	Enameled Wire40mm	Configuration	12N14P
Shaft Diameter	IN : 4mm OUT : 3mm	Rated Voltage(Lipo)	2-3S
Idle Current(10V)	0.75A	Peak Current(180s)	25A
Max. Power(180s)	62W	Recommendation	/

Test Report

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (℃)
AS2303 Short Shaft KV1500	GWS 8040	40%	11.47	1.17	13.43	5665	0.015	131	9.78	68 (Ambient Temperature:/)
		45%	11.47	1.53	17.55	5966	0.017	156	8.89	
		50%	11.46	2.07	23.72	6205	0.020	192	8.11	
		55%	11.45	2.70	30.91	6718	0.024	230	7.45	
		60%	11.44	3.40	38.91	7186	0.028	267	6.85	
		65%	11.42	4.09	46.70	7610	0.032	297	6.35	
		70%	11.41	4.91	56.04	8068	0.036	334	5.96	
		75%	11.43	5.91	67.51	8577	0.040	373	5.52	
		80%	11.70	7.02	82.11	9042	0.046	420	5.11	
		90%	11.72	9.13	106.99	9666	0.053	485	4.53	
		100%	11.73	9.20	107.98	9617	0.052	481	4.45	
	GWS 9050	40%	7.48	0.73	5.45	3217	0.011	83	15.17	57 (Ambient Temperature:/)
		45%	7.46	1.08	8.04	3541	0.014	101	12.59	
		50%	7.46	1.46	10.87	3871	0.017	125	11.48	
		55%	7.45	1.96	14.61	4210	0.019	147	10.07	
		60%	7.44	2.56	19.03	4518	0.023	171	8.97	
		65%	7.47	3.21	24.02	4834	0.025	195	8.12	
		70%	7.73	4.04	31.26	5211	0.030	233	7.44	
		75%	7.79	4.83	37.58	5522	0.033	261	6.96	
		80%	7.78	5.67	44.08	5739	0.036	287	6.51	
		90%	7.81	7.46	58.25	6221	0.044	339	5.83	
		100%	7.78	7.55	58.77	6234	0.043	338	5.75	

Continued below

	GWS 1060	40%	7.47	0.94	7.04	2554	0.014	92	13.00	69 (Ambient Temperature:/)
		45%	7.46	1.37	10.23	2844	0.016	104	10.21	
		50%	7.45	1.91	14.27	3151	0.021	136	9.52	
		55%	7.44	2.56	19.04	3412	0.025	159	8.38	
		60%	7.52	3.18	23.92	3710	0.029	186	7.79	
		65%	7.74	4.20	32.50	3978	0.034	221	6.81	
		70%	7.75	5.00	38.80	4215	0.038	244	6.30	
		75%	7.77	6.00	46.59	4444	0.043	279	5.98	
		80%	7.80	6.90	53.79	4609	0.046	302	5.61	
		90%	7.77	8.68	67.46	4919	0.053	334	4.95	
		100%	7.75	8.64	67.02	4873	0.051	329	4.90	

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.)

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (℃)
AS2303 Short Shaft KV1800	GWS 8040	40%	7.68	1.04	7.99	4342	0.011	94	11.79	67 (Ambient Temperature:/)
		45%	7.58	1.28	9.74	4629	0.013	110	11.29	
		50%	7.51	1.64	12.35	4974	0.015	125	10.09	
		55%	7.57	2.15	16.27	5409	0.018	147	9.06	
		60%	7.51	2.66	19.99	5784	0.020	170	8.51	
		65%	7.49	3.25	24.35	6153	0.023	196	8.05	
		70%	7.46	3.92	29.22	6524	0.026	223	7.62	
		75%	7.43	4.71	35.02	6936	0.029	251	7.17	
		80%	7.39	5.46	40.34	7244	0.032	273	6.78	
		90%	7.28	7.10	51.66	7835	0.037	320	6.19	
		100%	7.23	7.26	52.52	7880	0.037	320	6.09	
	GWS 9050	40%	7.60	1.19	9.03	3454	0.014	97	10.73	56 (Ambient Temperature:/)
		45%	7.58	1.65	12.49	3784	0.017	119	9.51	
		50%	7.60	2.21	16.82	4140	0.020	145	8.61	
		55%	7.59	2.96	22.42	4494	0.024	175	7.80	
		60%	7.51	3.67	27.58	4783	0.027	199	7.22	
		65%	7.44	4.43	32.95	5076	0.030	224	6.79	
		70%	7.40	5.33	39.45	5320	0.034	249	6.31	
		75%	7.33	6.21	45.48	5574	0.037	274	6.03	
		80%	7.26	7.09	51.46	5776	0.040	295	5.73	
		90%	7.13	9.00	64.15	6130	0.045	336	5.24	
		100%	7.15	9.17	65.59	6158	0.045	334	5.10	

Note: Motor temperature is motor surface temperature @100% throttle running 3mins.
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Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (℃)
AS2303 Short Shaft KV2300	GWS 7035	40%	7.52	1.64	12.30	7064	0.011	100	8.17	74 (Ambient Temperature:/)
		45%	7.54	2.06	15.56	7611	0.013	119	7.61	
		50%	7.51	2.45	18.43	8135	0.014	134	7.29	
		55%	7.46	2.84	21.17	8504	0.016	151	7.13	
		60%	7.47	3.23	24.10	8873	0.017	167	6.93	
		65%	7.48	3.77	28.21	9382	0.019	189	6.69	
		70%	7.43	4.41	32.77	9869	0.021	212	6.47	
		75%	7.40	5.28	39.09	10479	0.024	243	6.21	
		80%	7.33	6.09	44.60	11032	0.026	268	6.01	
		90%	7.19	8.10	58.25	12023	0.031	325	5.58	
		100%	7.18	8.40	60.32	12186	0.032	331	5.49	

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

(2.0*20mm O ring*2,M2*5mm cross self taping screw*4
10*5.5*7*2.5mm Aluminum Prop Adapter*1
10*5.5*8*2.5mm Aluminum Prop Adapter *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