

Motor Winding	TT-2931		TT-2933				TT-2934				TT-2936				TT-2937			
	B	A	C	B	A	D	C	B	A	D	C	B	A	D	D	A	B	C
<b>Basic Motor Constants</b>																		
Power, P (hp)	0.8	1.2	0.8	1.4	1.4	1.5	1.2	1.7	1.7	2	1.6	2	2.5	2.5	1.5	2	2.2	3
Power, P (W)	600	900	600	1040	1040	1120	900	1300	1300	1500	1200	1500	1900	1900	1120	1500	1600	2200
Max Speed, Nmax (rpm)	2,900	4,500	1,400	2,450	3,500	4,500	1,500	2,400	3,000	4,000	1,500	2,000	2,700	3,200	900	1,400	1,800	2,500
Cont. Torque Mo (lb-ft)	1.7	1.7	3.4	3.4	3.4	3.4	5.0	5.0	5.0	5.0	6.5	6.5	6.5	6.5	8.7	8.7	8.7	8.7
Cont. Torque Mo (Nm)	2.3	2.3	4.6	4.6	4.6	4.6	6.8	6.8	6.8	6.8	8.8	8.8	8.8	8.8	11.8	11.8	11.8	11.8
Peak Torque, Mmax (lb-ft)	12.0	8.0	30.0	20.8	13.8	13.0	35.5	23.2	19.2	14.8	28.5	26.3	23.5	18.7	48.0	29.0	31.0	23.5
Peak Torque, Mmax (Nm)	16.2	10.8	40.5	28.2	18.6	17.6	47.9	31.3	26	19.9	38.5	35.1	31.8	25.2	64.8	39.2	41.6	31.7
Current @ Cont. Torque, Io (A)	6.29	9.88	6.30	10.60	15.30	19.70	9.40	14.70	18.90	26.30	12.90	16.10	21.50	26.00	11.60	15.40	19.80	27.60
Current @ Peak Torque, Ip (A)	70	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Max Terminal Voltage, Vr (V)	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
Back EMF Const, Ke (V/krpm)	38.3	24.4	76.9	45.6	31.5	24.6	75.3	48.3	37.6	27.0	71.6	57.2	42.8	25.5	106.5	80.4	62.5	44.7
Torque Const., Kt (lb-ft/A)	0.270	0.172	0.542	0.321	0.222	0.173	0.530	0.340	0.265	0.190	0.504	0.403	0.302	0.250	0.750	0.566	0.440	0.315
Torque Const., Kt (Nm/A)	0.365	0.232	0.732	0.433	0.299	0.233	0.716	0.461	0.359	0.257	0.68	0.546	0.409	0.338	1.013	0.767	0.596	0.425
DC Resistance, R (Ω)	1.652	0.685	2.295	0.715	0.366	0.229	1.255	0.456	0.273	0.159	0.707	0.432	0.257	0.195	1.214	0.646	0.396	0.239
Inductance, L (mH)	4.4	1.8	9.5	2.5	1.6	0.78	8	1.21	2	1	3.2	2.1	1.2	0.83	4.44	2.5	1.5	1.4

Weight, M (lbs)	14.8	18.3	23.3	28.4	32.4
Weight, M (kg)	6.7	8.5	11.0	13	14.7
Inertia, Jm (lb-ft.sec <sup>2</sup> )	0.000695	0.001	0.0015	0.00202	0.00253
Inertia, Jm (kg.m <sup>2</sup> )	0.000942	0.0014	0.002	0.00274	0.00343
Static Friction, Tf (lb-ft)	0.16	0.22	0.265	0.31	0.33
Static Friction, Tf (Nm)	0.145	0.3	0.365	0.43	0.45
Viscous Damping, F1 (lb.ft/krpm)	0.027	0.055	0.0835	0.112	0.14
Viscous Damping, F1 (Nm/krpm)	0.037	0.075	0.1135	0.152	0.19

**Tachogenerator Option**

Tachogenerator Model	TGF2030-162	TGF2030-162	TGF2030-162	TGF2030-162	TGF2030-162
Voltage, KG (V/krpm)	19v / 24v / 30v	19v / 24v / 30v	19v / 24v / 30v	19v / 24v / 30v	19v / 24v / 30v
Ripple (pk-pk/avg)	2%	2%	2%	2%	2%
Inertia, Jt (oz.in.sec <sup>2</sup> )	0.008	0.008	0.008	0.008	0.008
Inertia, Jt (kg.cm <sup>2</sup> )	0.565	0.565	0.565	0.565	0.565
Weight, Mt (oz)	20.5	20.5	20.5	20.5	20.5
Weight, Mt (grams)	581	581	581	581	581

**Encoder Option**

Encoder Type	Incremental (A quad B with index Z & complements)
Power Supply	5V DC ± 5%, 200mA max
Output	Line Driver, 20mA Max source/sink
Resolution (ppr)	1024 / 2048 / 4096
Frequency Response	200 kHz max

**Brake Option**

Code	B1	B2	B3
Brake Open Voltage	115V a.c.	90V d.c.	24V d.c.
Power (Watts)	16	16	16
Brake Static Torque (lb.ft)	8.85	8.85	8.85
Brake Static Torque (Nm)	12	12	12
Weight (brake + housing) lbs	5.5	5.5	5.5
Weight (brake + housing) Kg	2.5	2.5	2.5