

Motor Winding	TT-2950						TT-2952					TT-2953					TT-2954		
	F	C	B	A	H	D	C	B	A	F	U	D	A	K	B	G	C	H	D
Basic Motor Constants																			
Power, P (hp)	0.7	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.4	/	1.4	1.6	1.5	2.0	2.0	1.5	/	2.4
Power, P (W)	522	746	746	746	820	746	820	895	895	1044	/	1044	1193	1119	1492	1492	1119	/	1790
Max Speed, Nmax (rpm)	3,000	4,500	5,000	5,000	5,000	5,000	2,000	2,500	3,000	4,000	5,000	1,400	2,000	2,400	3,000	3,600	1,500	2,000	2,300
Cont. Torque Mo (lb-ft)	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0	2.6	6.2	6.0	6.0	5.8	5.8	8.2	7.4	7.6
Cont. Torque Mo (Nm)	2.0	2.0	2.0	2.0	2.3	2.0	4.1	4.1	4.1	4.1	3.5	8.4	8.1	8.1	7.9	7.9	11.1	10.0	10.3
Peak Torque, Mmax (lb-ft)	13.0	12.0	11.0	9.5	8.0	6.0	25.0	22.0	20.0	15.0	11.0	40.0	30.0	25.0	22.0	17.0	39.1	33.3	27.5
Peak Torque, Mmax (Nm)	17.6	16.3	14.9	12.9	11.12	8.1	33.9	29.8	27.1	20.3	14.9	53	40.7	34	29.8	23	52.9	45.1	37.2
Current @ Cont. Torque, Io (A)	5.86	8.33	9.74	11.72	17.40	19.50	8.04	9.38	11.30	16.10	19.70	11.40	15.80	18.50	21.40	26.70	15.10	18.10	22.40
Current @ Peak Torque, Ip (A)	70	90	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	95	115	115	115	115	115	115	115	115
Back EMF Const, Ke (V/krpm)	36.4	25.5	21.9	18.2	14.5	10.9	53.0	45.4	37.8	26.4	18.7	77.1	54.0	46.2	38.5	30.8	77.1	57.8	48.3
Torque Const., Kt (lb-ft/A)	0.256	0.180	0.154	0.128	0.102	0.077	0.373	0.320	0.266	0.186	0.132	0.543	0.380	0.325	0.271	0.217	0.543	0.407	0.340
Torque Const., Kt (Nm/A)	0.347	0.244	0.209	0.174	0.139	0.104	0.506	0.434	0.361	0.252	0.132	0.736	0.515	0.441	0.368	0.294	0.736	0.552	0.46
DC Resistance, R (Ω)	1.28	0.712	0.484	0.321	0.205	0.121	1	0.68	0.452	0.25	0.129	0.707	0.393	0.267	0.199	0.112	0.481	0.34	0.212
Inductance, L (mH)	3.68	1.8	1.3	0.92	0.59	0.32	3.2	2.5	1.6	0.78	0.4	3.27	1.6	1.2	0.81	0.52	3.1	1.6	1.2

Weight, M (lbs)	16.5	22	32	36
Weight, M (kg)	7.5	10	14.5	16.5
Inertia, JM (lb-ft.sec ²)	0.000695	0.001	0.00202	0.00253
Inertia, JM (kg.m ²)	0.000942	0.0014	0.00274	0.00343
Static Friction, TF (lb-ft)	0.16	0.22	0.31	0.33
Static Friction, TF (Nm)	0.145	0.3	0.43	0.45
Viscous Damping, F1 (lb.ft/krpm)	0.027	0.055	0.112	0.14
Viscous Damping, F1 (Nm/krpm)	0.037	0.075	0.152	0.19

Tachogenerator Option	TGF1810-147	TGF1810-147	TGF1810-147	TGF1810-147
Tachogenerator Model	TGF1810-147	TGF1810-147	TGF1810-147	TGF1810-147
Voltage, Kg (V/krpm)	12.5v / 20v / 7v	12.5v / 20v / 7v	12.5v / 20v / 7v	12.5v / 20v / 7v
Ripple (pk-pk/avg)	4%	4%	4%	4%
Inertia, JT (oz.in.sec ²)	0.005	0.005	0.005	0.005
Inertia, JT (kg.cm ²)	0.353	0.353	0.353	0.353
Weight, Mt (oz)	16.5	16.5	16.5	16.5
Weight, Mt (grams)	470	470	470	470

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

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