

Motor Winding	Symbol	Units	TT 2041		TT 2042			TT 2043			TT 2045			
			A	D	A	B	C	A	BC		A	C		
<b>Basic Motor Constants</b>	Power	P	Hp	0.4	0.25	0.5	0.3	0.7	0.5	0.7	0.9	0.4	0.7	
			kW	0.3	0.19	0.38	0.23	0.52	0.38	0.52	0.67	0.3	0.53	
	Max Speed	Nmax	rpm	5,000	2,800	2800	1400	5450	1800	3000	4200	1300	2600	
	Cont. Torque (stall) @ 40°C ambient	Tc	oz.in	97	100	185	197	170	267	255	199	349	265	
			Nm	0.68	0.71	1.31	1.37	1.18	1.88	1.8	1.4	2.5	1.9	
	Current @ Cont. Torque	Ic	A	5.8	3.1	5.5	2.9	7.9	5.5	7.1	7.9	5.2	7.9	
	Peak Torque	Tp	oz.in	340	654	680	1300	431	1010	730	505	1350	685	
			Nm	2.4	4.6	4.8	9.1	3	7.1	5.16	3.57	9.5	4.8	
	Current @ Peak Torque	Ip	A	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
	Max Terminal Voltage	Vmax	V	76	90	90	90	90	90	90	90	90	90	90
	Torque Const.	KT	oz.in/A	16.8	33.6	33.6	67.2	21.6	50.4	36	25.2	67.2	33.6	
			Nm/A	0.12	0.24	0.24	0.48	0.15	0.36	0.25	0.178	0.46	0.23	
	Back EMF Const	Ke	V/krpm	12.4	24.8	24.9	50	16	37.3	26.6	18.2	49.7	24.8	
	DC Resistance	R	Ω	1.0	4.0	1.3	5.5	0.65	2	1.1	0.52	2.2	0.6	
	Inductance	L	mH	1.1	4.1	1.7	7	0.75	2.7	1.4	0.7	3.6	0.9	
	Rotor Inertia	JM	oz.in.sec <sup>2</sup>	0.02	0.02	0.037	0.037	0.037	0.044	0.044	0.044	0.059	0.059	
			kgm <sup>2</sup>	1.4x10 <sup>-4</sup>	1.4x10 <sup>-4</sup>	2.6x10 <sup>-4</sup>	2.6x10 <sup>-4</sup>	2.6x10 <sup>-4</sup>	3.1x10 <sup>-4</sup>	3.1x10 <sup>-4</sup>	3.1x10 <sup>-4</sup>	4.2x10 <sup>-4</sup>	4.2x10 <sup>-4</sup>	
	Weight	WT	lb	6.4	6.4	8.8	8.8	8.8	9.9	9.9	9.9	12.1	12.1	
			kg	2.9	2.9	4	4	4	4.5	4.5	4.5	5.5	5.5	
	Static Friction	TF	oz.in	5.7	5.7	7	7	7	8.5	8.5	8.5	9.9	9.9	
		Nm	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07		
Viscous Damping	F1	oz.in/krpm	1.4	1.4	2.8	2.8	2.8	3.5	3.5	3.5	5	5		
		Nm/krpm	0.01	0.01	0.02	0.02	0.02	0.025	0.025	0.025	0.035	0.035		

**Tachogenerator Option**

Tachogenerator Model			TGF 1568A									
Voltage	KG	V/krpm	7.0									
Ripple (pk-pk/avg)		%	3%									
DC Resistance	RG	Ω	43									
Inductance	LG	mH	25									