

ENTER DRIVE LETTER BELOW(S for Sine, T for Trap)

s

ENTER UNIT LETTER BELOW(M for SI, E for English)

m

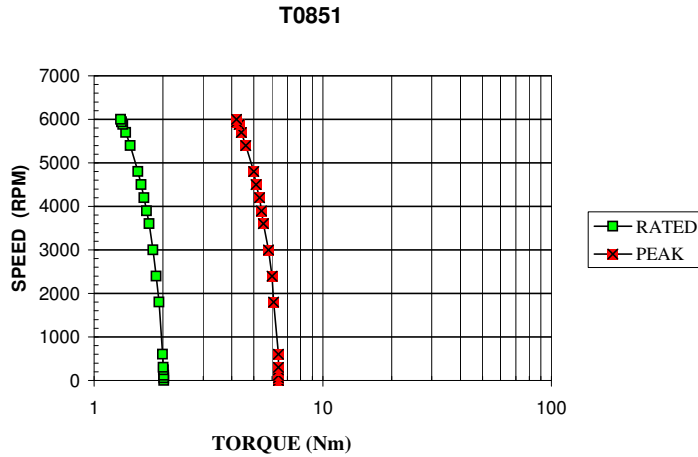
SELECT WINDING FROM DROP DOWN LIST

Kc = A0(Ke = 20 Vpk/krpm)

MODE NUMBER

CHECKED:	SD	T0851		A0(Ke = 20 Vpk/krpm)	DRAWN:	AR
all values at 25 deg c unless stated otherwise				STD	CUST	APPROVED:
TORQUE & CURRENT AT 40 Deg C AMBIENT				YES		SD
^SPECIFICATIONS						
Symbol	Units	NOM	MIN	MAX		
Tpk	Torque,peak stall	Nm		6.4		
Tc	Torque,continuous stall	Nm	2.02	1.82	2.22	
Ktp	Torque sensitivity (L TO L)	Nm/Apeak	0.165	0.149	0.182	
Kt	Torque sensitivity (L TO L)	Nm/Arms	0.234	0.211	0.257	
Ra	Armature resistance (L TO L)	ohms	0.36	0.31	0.41	
La	Armature inductance (L TO L)	millihenry	1.9	1.33	2.47	
Ip	Amps at Tpk	Apeak	38.9	35.0	42.8	
Isp	Amps at Tc stall	Apeak	14.37	12.93	15.81	
Is	Amps at Tc stall	Arms	10.16	9.14	11.18	
Ke	Back EMF constant	Vpeak/Krpm	20.00	18.00	22.00	
Ke	Back EMF constant	Vrms/Krpm	14.14	12.73	15.55	
Ke	Back EMF constant	Vpeak/rad/sec	0.191	0.149	0.182	
Ke	Back EMF constant	Vrms/rad/sec	0.135	0.122	0.149	
Ep	Volts @ Tpk	Vpeak	14.00			
Fi	Viscous friction	Nm/Krpm	0.009			
Tf	Static friction torque	Nm	0.019			
Ec	volts @ Tc	Vpeak	7.760			
Jm	Moment of inertia	Kg-cm2	0.7345			
Tm	Time constant,mech	milliseconds	0.72			
Te	Time constant,elect	milliseconds	5.28			
Rth	Thermal resistance	deg C/watt	1.35			
Tth	Time constant,thermal	minutes	20			
Oa	Max armature temp	deg C		155	MOTOR IS MOUNTED ON A 254 mmx254 mmx6.35 mm ALUMINUM PLATE IN A 40 DEG.C AMBIENT	
Km	Figure of Merit	Nm/(amp-ohm)	0.28		SPEED/ TORQUE CURVE SHOWN IS RATED. TYPICAL VALUES ARE WITH IN +/- 10% OF RATING	
Nls	Max operating speed	rpmmax		6000	OTHER SPECIFICATIONS	
	# of motor pole		8		REV(Dt)	Description
Wt	weight	Kg	2.8		A(11/11/05)	Initial release
					B(2/8/06)	Add RMS Kt and Ke
					C(3/20/06)	Add # of poles and reconfigured speedtorque
					D(4/6/06)	Sine SI Ke values corrected

SINUSOIDAL DRIVE



RPM	Trated Nm	Peak Voltage	Peak Current	RMS Current	Watts
0	2.020	7.8	14.37	10.16	84
300	2.009	13.7	14.29	10.10	157
600	1.996	19.7	14.20	10.04	229
1200	1.963	31.5	13.96	9.87	369
1800	1.922	43.4	13.67	9.67	502
2400	1.871	55.2	13.31	9.41	625
3000	1.810	66.9	12.87	9.10	736
3600	1.738	78.7	12.36	8.74	833
4200	1.654	90.4	11.76	8.32	912
4800	1.556	102.0	11.07	7.83	970
5400	1.441	113.5	10.25	7.25	1002
6000	1.306	125.0	9.29	6.57	1001

Rated Speed	Rated Torque
6000	1.3
Rated watts 822	