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

s

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

m

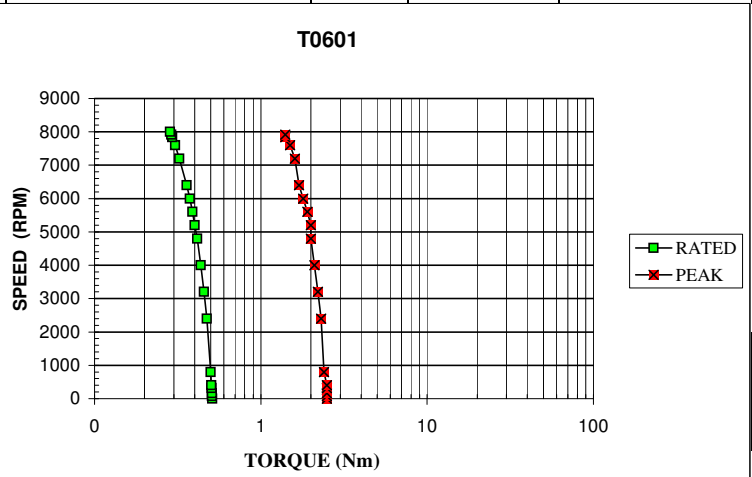
SELECT WINDING FROM DROP DOWN LIST

Ke = B8(Kv = 22 Vpk/krpm)

MODEl NUMBER T0601 B8(Kv = 22 Vpk/krpm)

CHECKED:	SD		DRAWN:	AR
all values at 25 deg c unless stated otherwise		STD	CUST	APPROVED:
TORQUE & CURRENT AT 40 Deg C AMBIENT		YES		SD

Symbol		^SPECIFICATIONS Units	NOM	MIN	MAX
Tpk	Torque,peak stall	Nm			2.5
Tc	Torque,continuous stall	Nm	0.51	0.46	0.56
Ktp	Torque sensitivity (L TO L)	Nm/Apeak	0.182	0.16	0.20
Kt	Torque sensitivity (L TO L)	Nm/Arms	0.257	0.23	0.28
Ra	Armature resistance (L TO L)	ohms	6.7	5.70	7.71
La	Armature inductance (L TO L)	millihenry	8.2	5.74	10.66
Ip	Amps at Tpk	Apeak	13.7	12.3	15.1
Isp	Amps at Tc stall	Apeak	3.30	2.97	3.63
Is	Amps at Tc stall	Arms	2.33	2.10	2.56
Kep	Back EMF constant	Vpeak/Krpm	**22.00**	19.80	24.20
Ke	Back EMF constant	Vrms/Krpm	15.56	14.00	17.12
Kep	Back EMF constant	Vpeak/rad/sec	0.210	0.16	0.20
Ke	Back EMF constant	Vrms/rad/sec	0.149	0.13	0.16
Ep	Volts @ Tpk	Vpeak	91.79		
Fi	Viscous friction	Nm/Krpm	0.005		
Tf	Static friction torque	Nm	0.020		
Ec	volts @ Tc	Vpeak	33.165		
Jm	Moment of inertia	Kg-cm2	0.15593		
Tm	Time constant,mechanical	milliseconds	2.37		
Te	Time constant,electrical	milliseconds	1.22		
Rth	Thermal resistance	deg C/watt	1.30		
Tth	Time constant,thermal	minutes	15		
Oa	Max armature temp	deg C			155
Km	Figure of Merit	Nm/(amp-ohm)	0.07		
Nls	Max operating speed	rpmmax			8000
	# of motor poles		8		
Wt	weight	Kg	1.0		



MOTOR IS MOUNTED ON A 254 mmx254 mmx6.35 mm ALUMINUM PLATE IN A 40 DEG.C AMBIENT

SPEED/ TORQUE CURVE SHOWN IS RATED. TYPICAL VALUES ARE WITH IN +/- 10% OF RATING

OTHER SPECIFICATIONS

SINUSOIDAL DRIVE

RPM	Trated Nm	Peak Voltage	Peak Current	RMS Current	Watts
0	0.510	33.2	3.30	2.33	82
400	0.505	41.7	3.27	2.31	105
800	0.500	50.1	3.23	2.28	128
1600	0.487	66.9	3.15	2.23	171
2400	0.473	83.6	3.06	2.16	210
3200	0.456	100.0	2.95	2.09	246
4000	0.436	116.3	2.82	1.99	274
4800	0.414	132.5	2.68	1.90	300
5600	0.388	148.4	2.51	1.77	314
6400	0.358	164.1	2.32	1.64	323
7200	0.324	179.5	2.10	1.48	320
8000	0.284	194.5	1.84	1.30	306

Rated Speed	Rated Torque
7200	0.3
Rated watts	245

REV(Dt)	Description
A(11/11/05)	Initial Release
B(2/08/06)	Add RMS Kt and Ke
C(2/24/06)	Add # of poles
D(4/6/06)	Sine SI Ke values corrected
E(2/20/07)	Add B8 winding