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

s

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

m

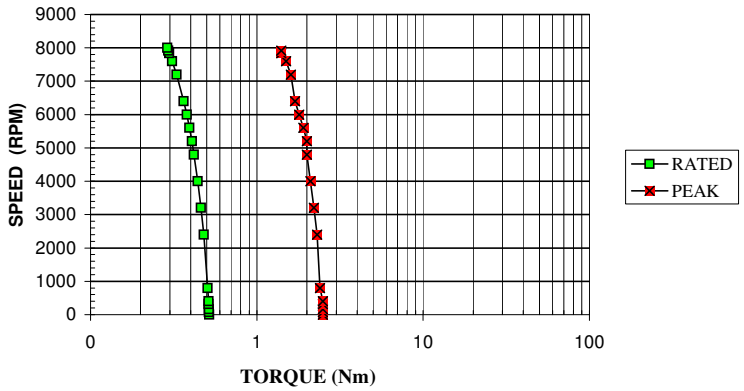
SELECT WINDING FROM DROP DOWN LIST

Ke = T0(Kv = 10 Vpk/krpm)

MODEl NUMBER T0601 T0(Kv = 10 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	0.52	0.47	0.57
Ktp	Torque sensitivity (L TO L)	Nm/Apeak	0.083	0.07	0.09
Kt	Torque sensitivity (L TO L)	Nm/Arms	0.117	0.11	0.13
Ra	Armature resistance (L TO L)	ohms	1.35	1.15	1.55
La	Armature inductance (L TO L)	millihenry	1.7	1.19	2.21
Ip	Amps at Tpk	Apeak	30.1	27.1	33.1
Isp	Amps at Tc stall	Apeak	7.35	6.62	8.09
Is	Amps at Tc stall	Arms	5.20	4.68	5.72
Kep	Back EMF constant	Vpeak/Krpm	**10.00**	9.00	11.00
Ke	Back EMF constant	Vrms/Krpm	7.07	6.36	7.78
Kep	Back EMF constant	Vpeak/rad/sec	0.096	0.07	0.09
Ke	Back EMF constant	Vrms/rad/sec	0.068	0.06	0.07
Ep	Volts @ Tpk	Vpeak	40.64		
Fi	Viscous friction	Nm/Krpm	0.005		
Tf	Static friction torque	Nm	0.020		
Ec	volts @ Tc	Vpeak	14.884		
Jm	Moment of inertia	Kg-cm2	0.15593		
Tm	Time constant,mechanical	milliseconds	2.31		
Te	Time constant,electrical	milliseconds	1.26		
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		



RPM	Trated Nm	Peak Voltage	Peak Current	RMS Current	Watts
0	0.516	14.9	7.34	5.19	82
400	0.512	18.7	7.28	5.15	106
800	0.506	22.6	7.20	5.09	129
1600	0.494	30.2	7.03	4.97	172
2400	0.479	37.8	6.81	4.82	212
3200	0.462	45.3	6.57	4.65	248
4000	0.442	52.7	6.29	4.45	278
4800	0.419	60.1	5.96	4.21	301
5600	0.393	67.3	5.59	3.95	318
6400	0.363	74.4	5.16	3.65	327
7200	0.329	81.5	4.68	3.31	325
8000	0.289	88.3	4.11	2.91	311

Rated Speed	Rated Torque
7200	0.3
Rated watts	248

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

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