

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

ENTER BUS VOLT BELOW(Vdc)

s

325

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

m

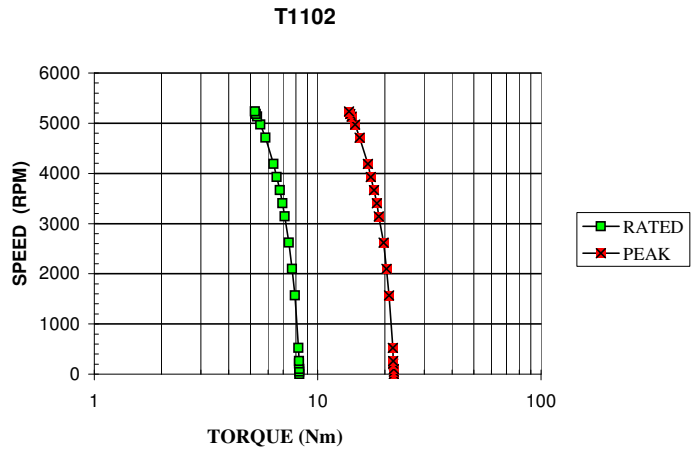
SELECT WINDING FROM DROP DOWN LIST

Ke = E0(Ke = 60 Vpk/krpm)

CHECKED:		SD			
all values at 25 deg c unless stated otherwise					
TORQUE & CURRENT AT 40 Deg C AMBIENT					
^SPECIFICATIONS					
Symbol	Units	NOM	MIN	MAX	
Tpk	Torque,peak stall	Nm		21.9	
Tc	Torque,continuous stall	Nm	8.29	7.46	9.12
Ktp	Torque sensitivity (L TO L)	Nm/Apeak	0.496	0.446	0.546
Kt	Torque sensitivity (L TO L)	Nm/Arms	0.702	0.632	0.772
Ra	Armature resistance (L TO L)	ohms	0.58	0.49	0.67
La	Armature inductance (L TO L)	millihenry	3.6	2.52	4.68
Ip	Amps at Tpk	Apeak	44.2	39.8	48.6
Isp	Amps at Tc stall	Apeak	19.66	17.69	21.63
Is	Amps at Tc stall	Arms	13.90	12.51	15.29
Ke	Back EMF constant	Vpeak/Krpm	60.00	54.00	66.00
Ke	Back EMF constant	Vrms/Krpm	42.43	38.19	46.67
Ke	Back EMF constant	Vpeak/rad/sec	0.573	0.446	0.546
Ke	Back EMF constant	Vrms/rad/sec	0.405	0.365	0.446
Ep	Volts @ Tpk	Vpeak	25.64		
Fi	Viscous friction	Nm/Krpm	0.350		
Tf	Static friction torque	Nm	0.500		
Ec	volts @ Tc	Vpeak	17.104		
Jm	Moment of inertia	Kg-cm2	4.29379		
Tm	Time constant,mech	milliseconds	0.76		
Te	Time constant,elect	milliseconds	6.21		
Rth	Thermal resistance	deg C/watt	0.45		
Tth	Time constant,thermal	minutes	28		
Oa	Max armature temp	deg C		155	
Km	Figure of Merit	Nm/(amp-ohm)	0.65		
Nls	Max operating speed	rpmmax			5237
	# of motor poles		8		
Wt	weight	Kg	6.7		

MODE NUMBER

T1102	E0(Ke = 60 Vpk/krpm)	DRAWN:	AR
	STD	CUST	APPROVED:
	YES		SD



RPM	Rated Nm	Peak Voltage	Peak Current	RMS Current	Watts
0	8.290	17.1	19.66	13.90	252
262	8.249	32.7	19.56	13.83	516
524	8.199	48.4	19.44	13.75	776
1047	8.071	79.5	19.14	13.53	1280
1571	7.902	110.6	18.74	13.25	1759
2095	7.691	141.6	18.24	12.90	2203
2619	7.434	172.5	17.63	12.47	2603
3142	7.128	203.2	16.90	11.95	2945
3666	6.766	233.9	16.04	11.34	3223
4190	6.338	264.5	15.03	10.63	3420
4713	5.834	294.8	13.83	9.78	3512
5237	5.231	325.0	12.40	8.77	3475

Rated Speed	Rated Torque
4713	5.8
Rated watts	2884

MOTOR IS MOUNTED ON A 304.8 mmx304.8 mmx12.7 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(2/10/06)	Add RMS Kt and Ke
C(3/20/06)	Add # of poles
D(4/6/06)	Sine SI Ke values corrected
E(2/20/07)	Add G3 winding
F(5/07/07)	Reconfigured speed/torque