

BELOW(S for Sine, T for Trap)

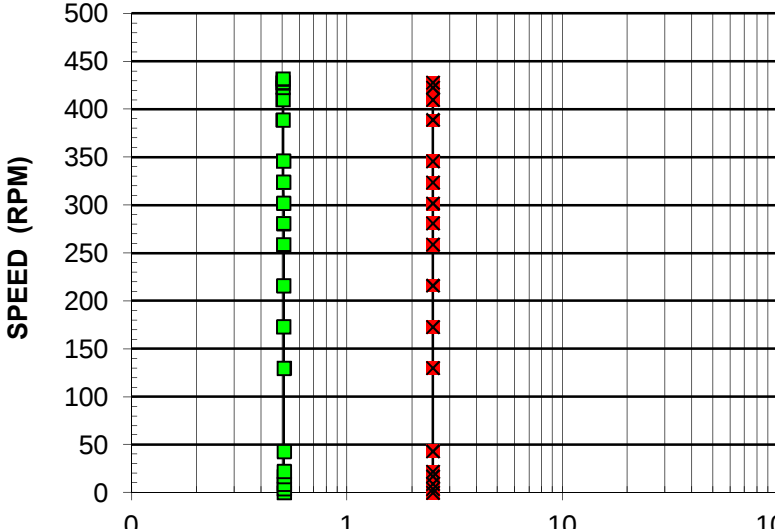
ENTER BUS VOLT BELOW(Vdc)

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BELOW(M for SI, E for English)

SELECT WINDING FROM DROP DOWN LIST

Ke = U0(Kv = 12.5 Vpk/krpm)

		CHECKED:	SD					MODE NUMBER		T0601 U0(Kv = 12.5 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				T0601  —■— RATED —x— PEAK							
Symbol	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	0.103	0.09	0.11								
Kt	Torque sensitivity (L TO L)	Nm/Arms	0.146	0.13	0.16								
Ra	Armature resistance (L TO L)	ohms	2.16	1.84	2.48								
La	Armature inductance (L TO L)	millihenry	2.8	1.96	3.64								
Ip	Amps at Tpk	Apeak	24.0	21.6	26.4								
Isp	Amps at Tc stall	Apeak	5.81	5.23	6.39								
Is	Amps at Tc stall	Arms	4.11	3.70	4.52								
Kep	Back EMF constant	Vpeak/Krpm	12.50	11.25	13.75								
Ke	Back EMF constant	Vrms/Krpm	8.84	7.96	9.72								
Kep	Back EMF constant	Vpeak/rad/sec	0.119	0.09	0.11								
Ke	Back EMF constant	Vrms/rad/sec	0.084	0.08	0.09								
Ep	Volts @ Tpk	Vpeak	51.84										
Fi	Viscous friction	Nm/Krpm	0.005										
Tf	Static friction torque	Nm	0.020										
Ec	volts @ Tc	Vpeak	18.824										
Jm	Moment of inertia	Kg-cm2	0.15593										
Tm	Time constant,mechanical	milliseconds	2.36										
Te	Time constant,electrical	milliseconds	1.30										
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			432								
	# of motor poles		8										
Wt	weight	Kg	1.0										
						OTHER SPECIFICATIONS							
								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				

RPM	Trated Nm	Peak Voltage	Peak Current	RMS Current
0	0.510	18.8	5.80	4.10
22	0.510	19.1	5.80	4.10
43	0.510	19.3	5.80	4.10
86	0.509	19.8	5.79	4.09
130	0.509	20.4	5.79	4.09
173	0.508	20.9	5.78	4.09
216	0.508	21.4	5.78	4.09
259	0.507	21.9	5.77	4.08
302	0.507	22.5	5.77	4.08
346	0.506	23.0	5.76	4.07
389	0.505	23.5	5.75	4.07
432	0.505	24.0	5.75	4.07

Rated Speed 432	Rated Torque 0.5
Rated watts	23