Allied Motion Technologies: TULSA 09-Mar-2012 Pg 1 QB02303-X0X-H (60 AMP) OREGON STATE UNIVERSITY SIZE CONSTANTS ** Parameter Symbol Unit VALUE Maximum Rated Torque ozin 2146.336 Tr 15.156 214.591 Maximum Continuous Stall Torque Τс ozin @Temperature Rise 100.000 °C 1.515 Nm 28.352 Motor Constant Km ozin/sqrt.w [Sqw. drive] Nm/sqrt.w 0.200 Electrical Time Constant Te msec 1.463 Mechanical Time Constant 0.785 Tm msec Angular Acceleration (theoretical) rad/sec² 341992.892 Thermal Resistance * TPR °C/watts 1.260 Maximum Cogging Torque Τf 6.300 ozin 0.044Nm Viscous Damping Fi ozin/rpm 1.562E-03 (Infinite Source Impedance) Nm/rpm 1.103E-05 Hysteresis Drag Torque Th ozin 1.892 0.013 Nm Rotor Inertia Frameless ozins² 4.453E-03 Jm kg.m2 3.145E-05 Motor Weight Frameless Wt 36.077 ΟZ 1.023 kg Rotor Inertia Housed ozins² 4.522E-03 Jm 3.193E-05 kg.m2 Motor Weight Housed Wt 52.717 ΟZ kg 1.495 No. of Poles Ρ 6 * TPR Assumes motor mounted to aluminium heat sink 8.000 8.000 0.250 inches (Still air) 25.000°C ** @ Ambient Temperature ,

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Allied Motion Technologies: QB02303-X0X-H (60 AMP)		STATE UNIVE		9-Mar-2012 P
Winding Constants *			-	
Parameter		Symbol	Unit	VALUE
Design Voltage		Vp	volt	50.000
Peak Torque,+/-25%		Тр	ozin Nm	1546.603 10.921
Peak Current,+/-15%		Ip	ampere	59.513
Torque Sensitivity +/-10%		Kt	ozin/amp Nm/Amp	25.988 0.184
No Load Speed		Snl	rpm rad/sec	2410.686 252.446
Voltage Constant +/-10%		Kb	v/Krpm v/rad/sec	19.218 0.184
Terminal Resistance +/-12%		Rm	ohms	0.840
Terminal Inductance +/-30%		Lm	mH	1.229
* Performance @ 25.000 RMS)°C TORQUE PER	FORMANCE		
Design Voltage Continuous Power Output @		Vp Power	volt watt Horsepower	50.000 142.073 0.191
COOLING :	100.489°C	Torque	ozin Nm	192.124 1.357
{ Still air} Ambient temperature	25.000°C	Speed Iphase I(dc-link) Efficiency		1000.000 8.320 4.437 64.047
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	TY	OREGON STATE UNIVERSI	QB02303-X0X-H (60 AMP)
		3	No. Of Phases
		DELTA	Phase Connection
	AWG	20	Lead Wire Gage
304.800 mm	inch	12.000	Lead Wire Length
		6	No. Of Poles
: (Still air	COOLING :	MOTOR	HOUSED :
128.270 mm	inch	5.050	Motor Length
58.420 mm	inch	2.300	Motor OD
9.525 mm	inch	0.375	Shaft OD
160.528 mm	inch	6.320	Shaft Length (Total)