

MaxMotion

PERFORMANCE DATA SHEET

Meets or exceeds MEPS, as described by the US DOE in docket 10CFR431 and NRCAN's Amendment 14

Catalogue # **MQS-7124NVB14**

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
0,5	0,37	230 / 460	1,15	78,0%	0,740	71	B	10

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
/	1,62	/	0,81	/	/	/	K	1730

50 Hz								
FLA			S.F. @ 50Hz		Efficiency	Power Factor	Code	F.L. RPM
190	380	415						
1,9	0,96	0,88	1,00		77,0%	0,77	K	1430

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
23,1	3	Cont.	F	40°C	1000M (3300 Ft)	42

% Efficiency		% Power Factor		Torque			
Full Load:	78,0%	Full Load:	0,74	Full Load Ft/Lbs	1,5	Winding Resist. Ω	Safe Cold Start (Secs)
3/4 Load:	74,8%	3/4 Load:	0,63	Locked Rotor %	240		
1/2 Load:	67,9%	1/2 Load:	0,48	Break Down %	320	/	12

Rotor Inertia Wk2 Lb-Ft2	Max Load Inertia Wk2 Lb-Ft2	Shaft Material	Frame Material	DE Bracket Type	ODE Bracket Type	Enclosure	NEMA Rating	Lead Wire Size
/	/	Stainless Steel 304				TENV	IP66	0

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6203	6203	Sealed Bearings	Rigid	Horizontal	-	/	/

Inverter Duty.		Constant Torque Range	Variable Torque Range	Constant HP RPM
Motor meets MG1 parts 31.4.4.2		10:1	20:1	0,5

WIRING CONNECTION DIAGRAM :	A	Nema C (IEC L) Dimension (mm)	250 mm
63 - 80, Dual Voltage, DOL, 9 Leads WYE Connection 230 / 460 VAC Low Voltage Line High Voltage Line			

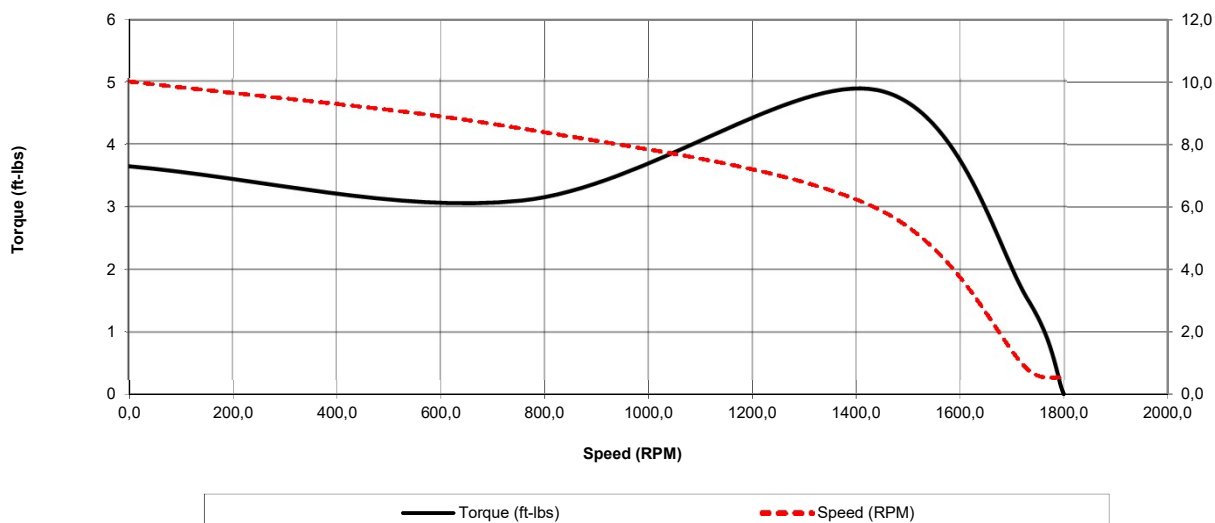
Date: 2019-01-29
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

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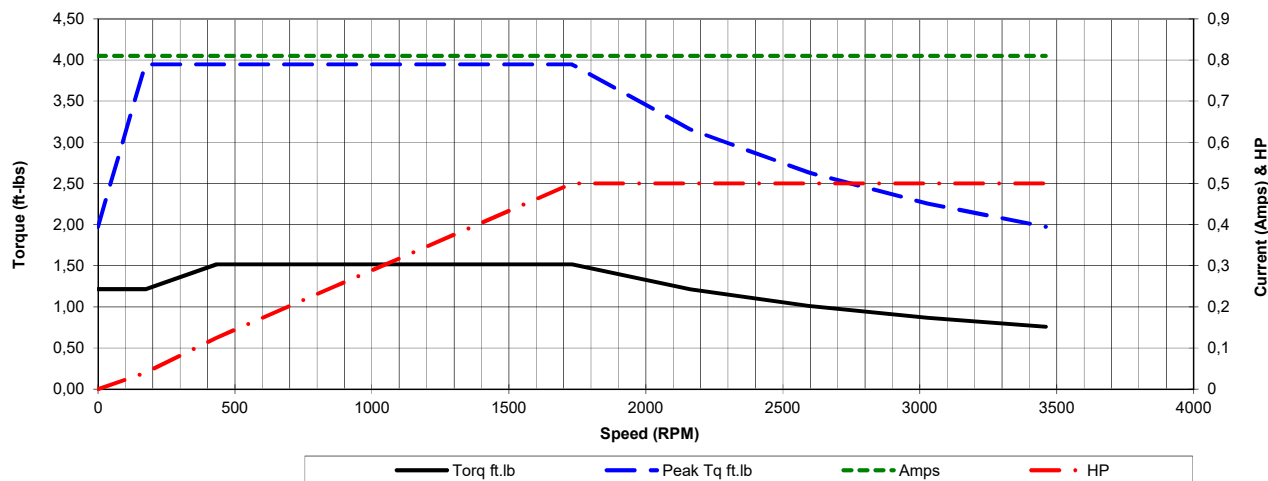
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HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
0,5	460	1730	TENV	71	60	B	4	K	F	42
	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	0,81	0,81	0,81	0,81	0,81	0,81	0,81	0,81	0,81	0,81
RPM	0	173	432,5	865	1297,5	1730	2162,5	2595	3027,5	3460
Torq ft.lb	1,21	1,21	1,52	1,52	1,52	1,52	1,21	1,01	0,87	0,76
Peak Tq ft.lb	1,97	3,95	3,95	3,95	3,95	3,95	3,16	2,63	2,26	1,97
HP	0	0,0	0,1	0,3	0,4	0,5	0,5	0,5	0,5	0,5
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0,0	756	1440	1730	1800	Continuous	1,15	40°C	3,300 ft	/
Current (Amps)	10,0	8,5	6,0	0,8	0,6	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	3,6	3,1	4,9	1,5	0,0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Torque Capability vs RPM



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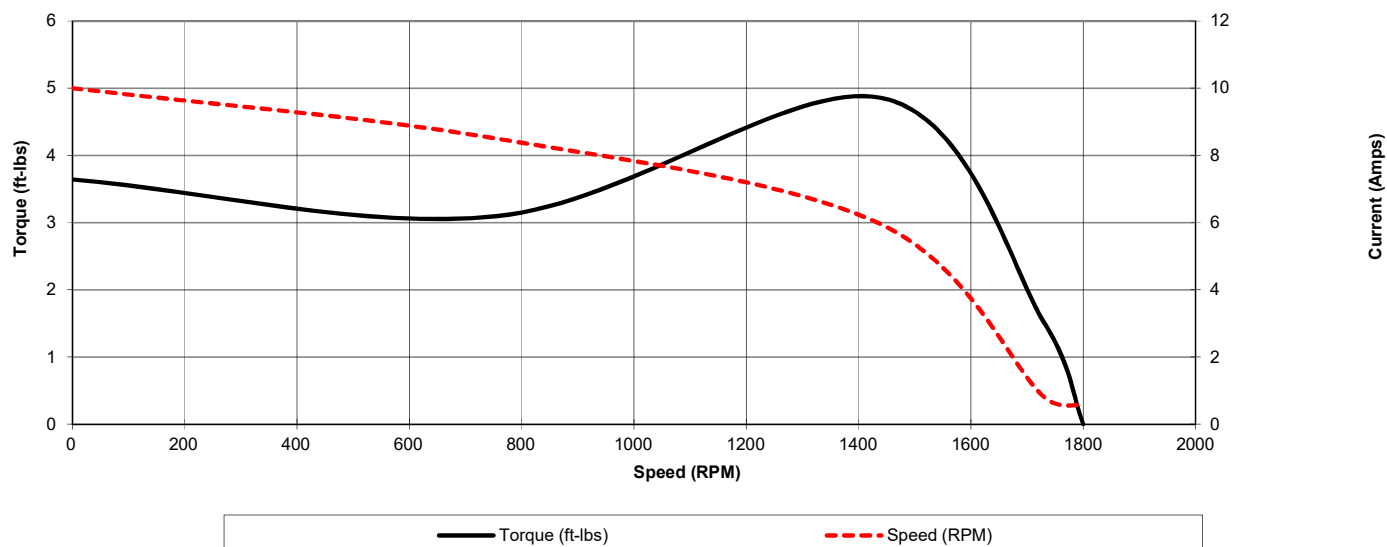
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HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
0,5	460	1730	TENV	71	60	B	4	K	F	42

Load %	0%	25%	50%	75%	100%	125%	150%
Amps	0,58	0,62	0,66	0,71	0,81	1,01	1,22
Torq ft/lbs	0	0,37	0,74	1,13	1,52	1,92	2,32
RPM	0	1782,5	1765	1747,5	1730	1712,5	1695
Eff	0	59,51	67,86	74,80	78,00	76,57	74,39
PF	0	31,8	48,174	62,53	74,0	75,5	77,7

	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	756	1440	1730	1800	Continuous	1,15	40°C	3,300 ft	/
Current (Amps)	10	8,5	6,0	0,81	0,5751	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	3,64	3,10	4,86	1,52	0,0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Load Data

