

MaxMotion

PERFORMANCE DATA SHEET

Meets or exceeds MEPS (Minimum Efficiency Performance Standards), as described by the US Department of Energy in docket 10CFR431 and Natural Resources Canada's Amendment 14

Catalogue #: **MQR-122J**

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
0,5	0,37	230 / 460	1,15	70,0%	0,743	56J	B	6

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
/	1,8	/	0,9	/	/	/	L	3445

50 Hz								
HP	kW	FLA		S.F. @ 50Hz	Efficiency	P.F.	Code	F.L. RPM
		190	380					
0,33	0,24618	1,8	0,9	1,15	66,0%	0,63	L	2880

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
21	3	Cont.	F	40°C	1000M (3300 Ft)	50

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	70,0%	Full Load:	0,74	Full Load Ft/Lbs	0,8		
3/4 Load:	67,6%	3/4 Load:	0,67	Locked Rotor %	200	/	12
1/2 Load:	55,5%	1/2 Load:	0,58	Break Down %	270		

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
/	/	304SS	Rolled Steel	Aluminium Alloy		TEFC	IP55	16AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6205	6203	Sealed Bearings	Rigid	Horizontal	Black	/	/

Inverter Duty. Motor meets MG1 parts 31.4.4.2	Constant Torque Range	Variable Torque Range	Constant HP RPM
	10:1	20:1	5400



Date: 2023-12-21
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

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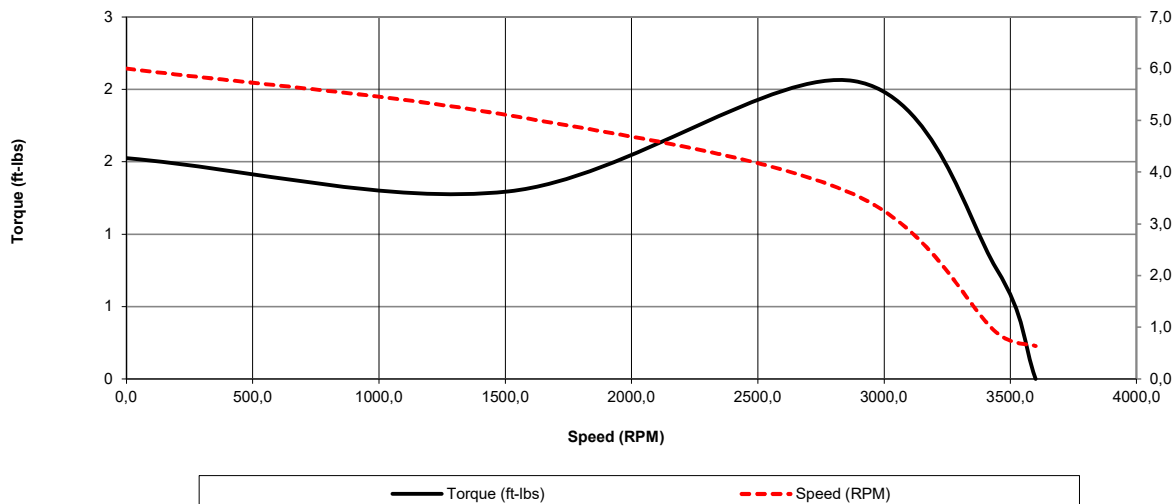
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HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
0,5	460	3445	TEFC	56J	60	B	2	L	F	50

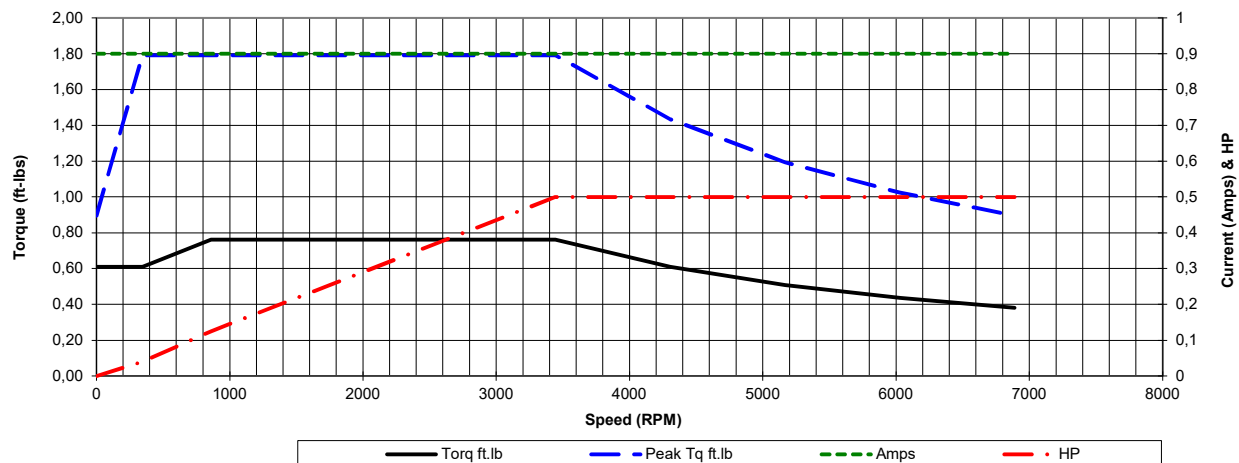
	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
RPM	0	344,5	861,25	1722,5	2583,75	3445	4306,25	5167,5	6028,75	6890
Torq ft.lb	0,61	0,61	0,76	0,76	0,76	0,76	0,61	0,51	0,44	0,38
Peak Tq ft.lb	0,90	1,79	1,79	1,79	1,79	1,79	1,43	1,19	1,02	0,90
HP	0	0,0	0,1	0,3	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	1512	2880	3445	3600	Continuous	1,15	40°C	3,300 ft	/
Current (Amps)	6,0	5,1	3,6	0,9	0,6	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft.-lbs)	1,5	1,3	2,1	0,8	0,0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Torque Capability vs RPM





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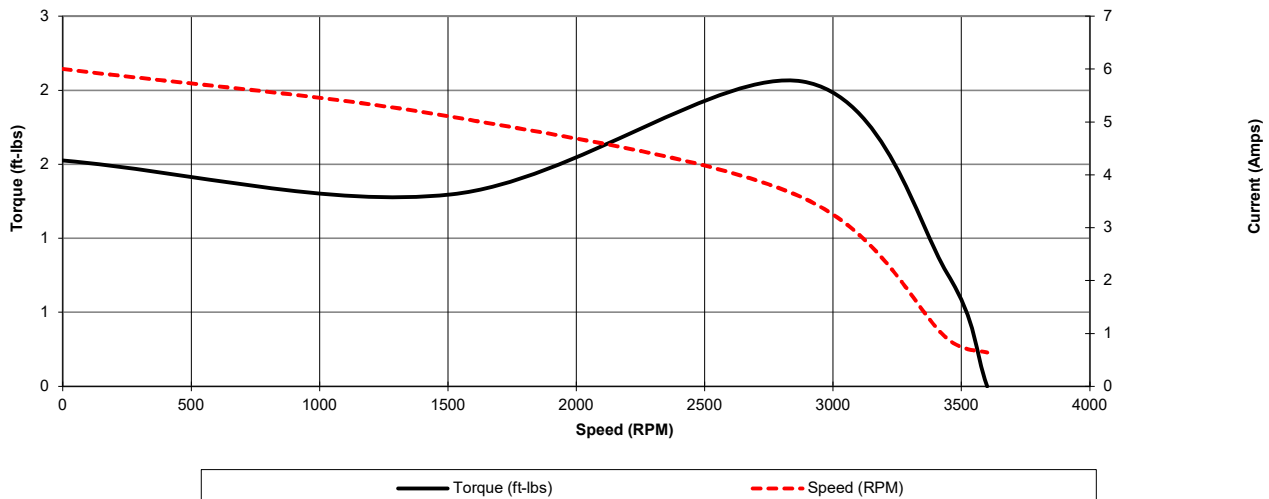
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HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
0,5	460	3445	TEFC	56J	60	B	2	L	F	50

Load %	0%	25%	50%	75%	100%	125%	150%
Amps	0,64	0,68	0,73	0,79	0,90	1,13	1,35
Torq ft/lbs	0	0,18	0,37	0,57	0,76	0,96	1,17
RPM	0	3561,25	3522,5	3483,75	3445	3406,25	3367,5
Eff	0	34,22	55,29	66,17	70,00	68,64	66,68
PF	0	50,0	58	67	74,3	75,8	78,0

	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	1512	2880	3445	3600	Continuous	1,15	40°C	3,300 ft	/
Current (Amps)	6	5,1	3,6	0,9	0,639	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	1,52	1,30	2,06	0,76	0,0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Load Data

