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-122CW

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	56HC	B	6

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
1,99	1,8	/	0,9	/	/	/	L	3445

50 Hz								
FLA			S.F. @ 50Hz		Efficiency	Power Factor	Code	F.L. RPM
190	380	415						
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		
Full Load:	70,0%	Full Load:	0,74	Full Load Ft/Lbs	0,8	Winding Resist. Ω	Safe Cold Start (Secs)
3/4 Load:	66,2%	3/4 Load:	0,67	Locked Rotor %	200		
1/2 Load:	55,3%	1/2 Load:	0,58	Break Down %	270	/	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				TEFC	IP55	0

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	0,33	

WIRING CONNECTION DIAGRAM : A

56 - 56C, Dual Voltage, DOL, 9 Leads WYE Connection

230 / 460 VAC

Date: 04/10/2018
Customer:
Contact:
Submittee: J.C. Lavallée

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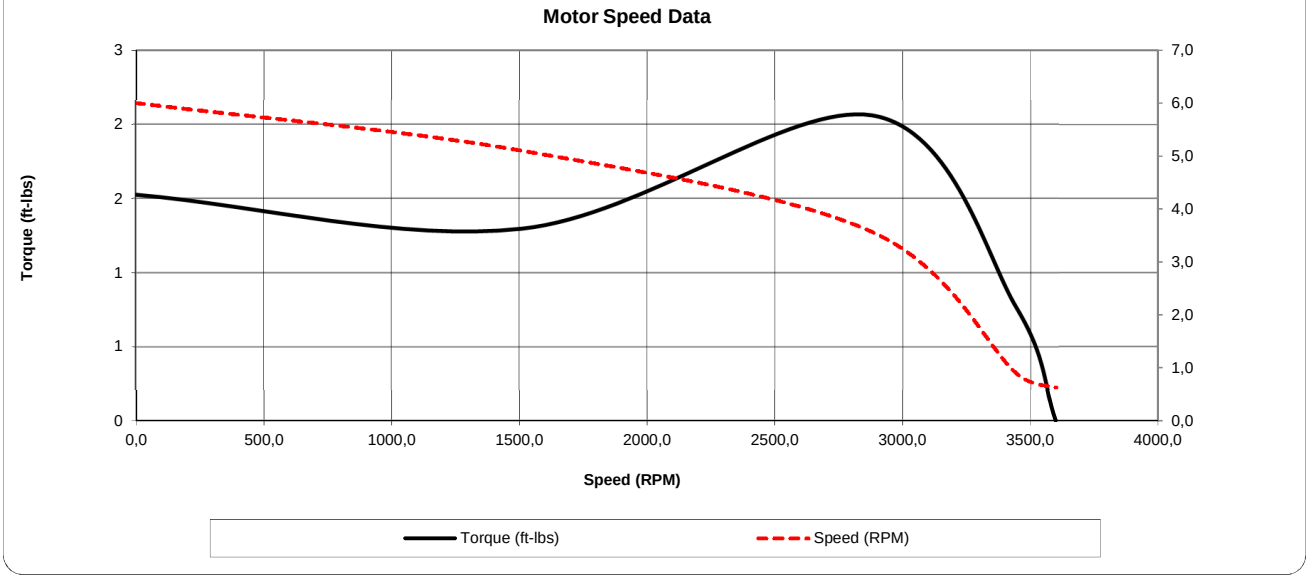
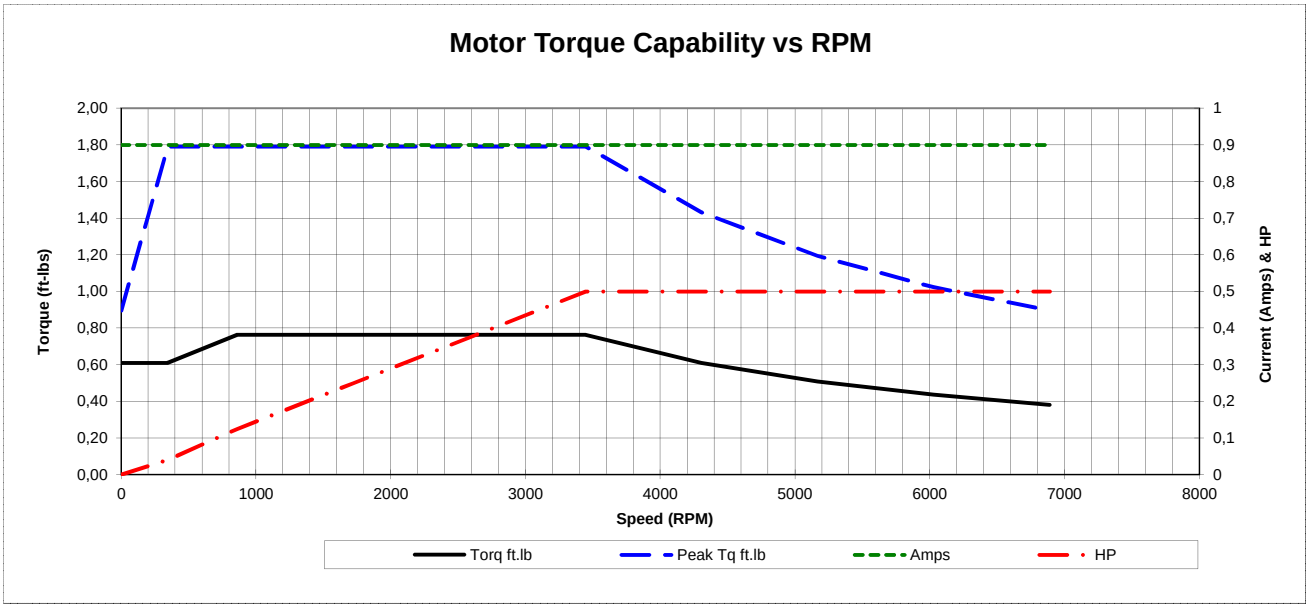
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
0,5	460	3445	TEFC	56HC	60	B	2	L	F	50

	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	





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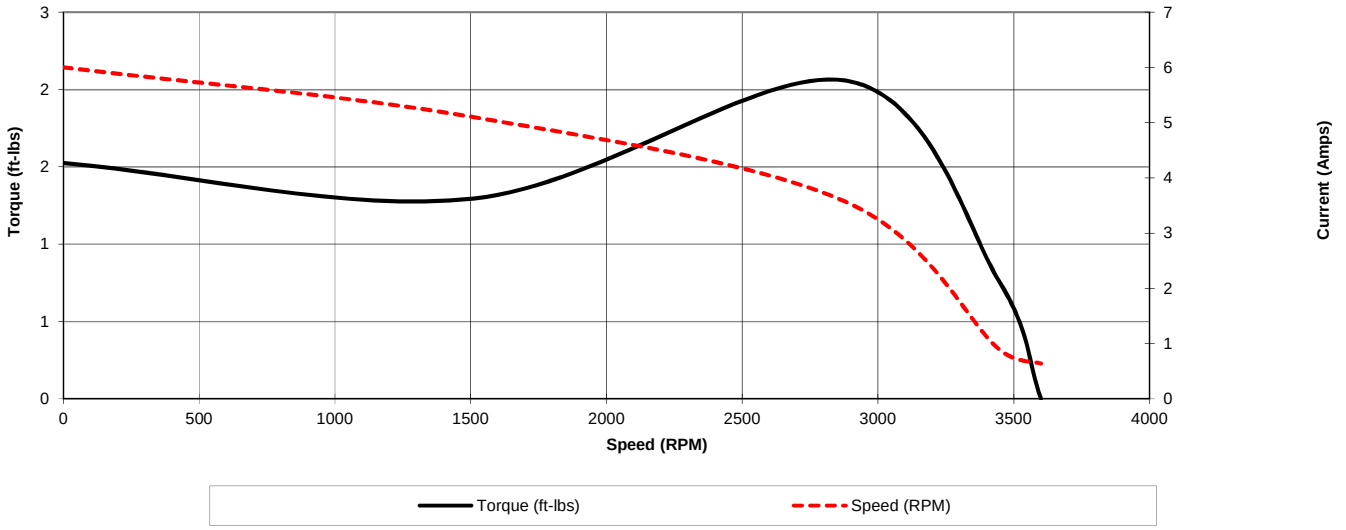
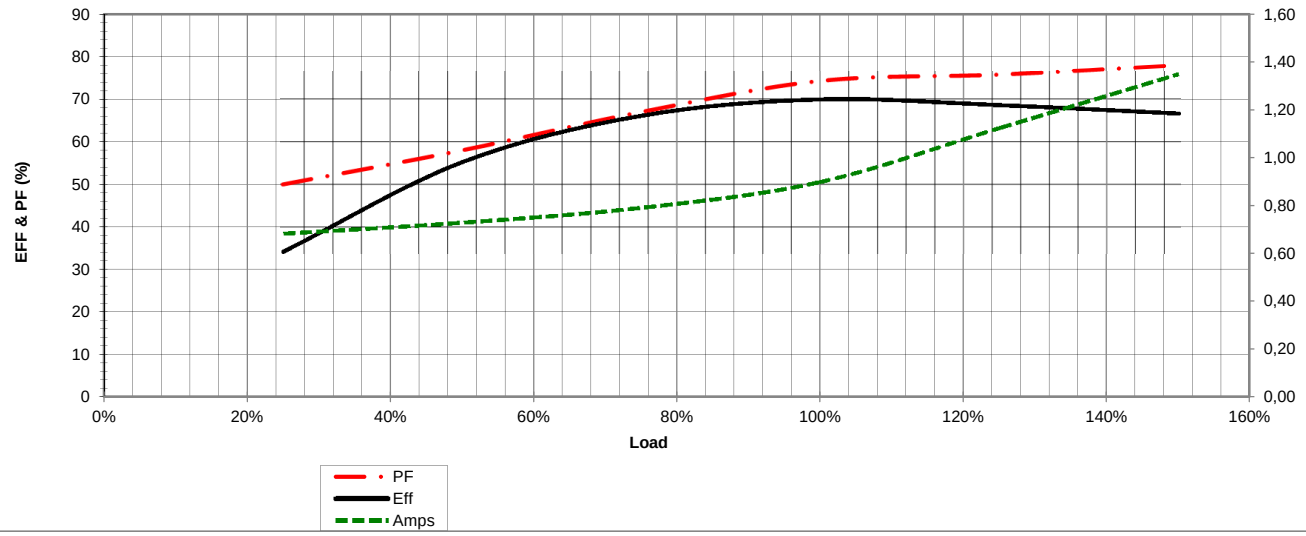
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
0,5	460	3445	TEFC	56HC	60	B	2	L	F	50

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