



**PERFORMANCE DATA SHEET
NEMA PREMIUM NR CAN NEMA 12 - 12**

Catalogue #: MQP-22

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
5	3,73	230/460	1,25	89,5%	0,79	184T	B	46

60 Hz								Code	F.L. RPM
208	230	416	460	480	575	600			
/	13,4	/	6,70	/	/			J	1755

50 Hz									
FLA			S.F. @ 50Hz	Efficiency	Power Factor	Code	F.L. RPM		
190	380	415							
15,4	7,7		1,00	87,5%	0,840	G	1440		

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
112	3	Cont.	F	40°C	1000M (3,300 Ft)	42

% Efficiency		% Power Factor		Torque			
Full Load:	89,5%	Full Load:	0,79	Full Load Ft/Lbs	15,0	Winding Resist. Ω	Safe Cold Start (Secs)
3/4 Load:	89,8%	3/4 Load:	0,74	Locked Rotor %	185		
1/2 Load:	89,0%	1/2 Load:	0,62	Break Down %	280		

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
0,24	40	1045	Cast Iron	Cast Iron	Cast Iron	TEFC	IP55	14 AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6306	6306	Sealed Bearings	Rigid	Horizontal	RAL6022	64	74

Inverter Duty, Motor meets MG1 parts 31.4.4.2	VFD SF	Constant Torque Range	Variable Torque Range	Constant HP RPM
	1,00	10:1	20:1	2700

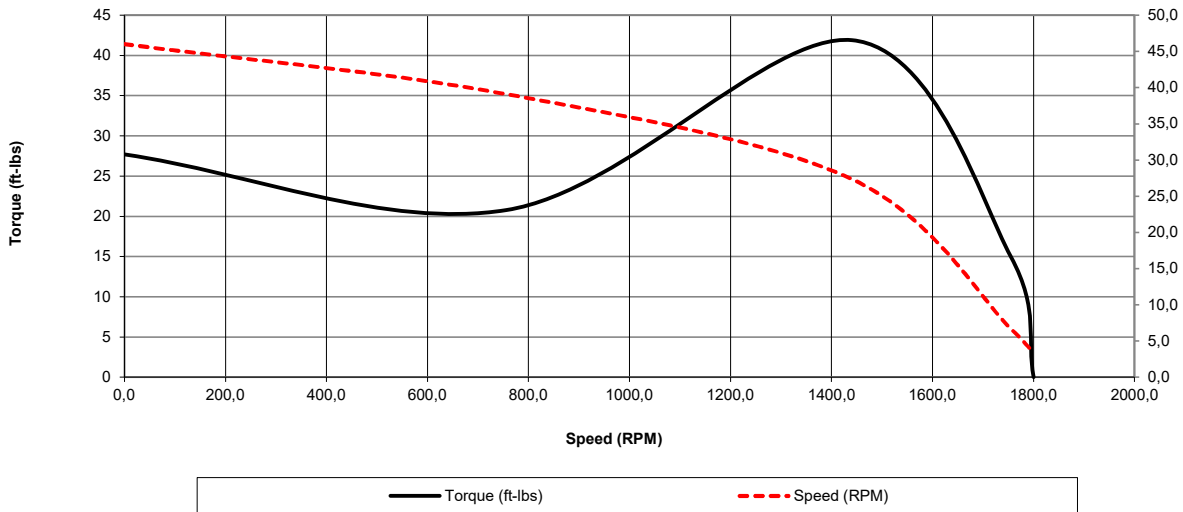


Date: 2023-12-13
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

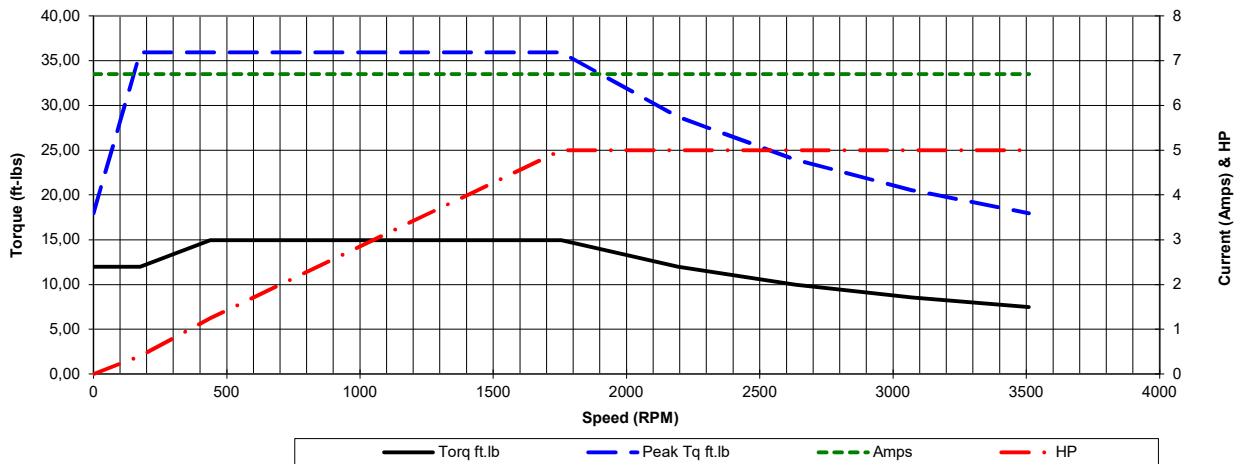
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NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
5	460	1755	TEFC	184T	60 Hz	B	4	J	F	42
	0Hz	6Hz	15Hz	30Hz	45Hz	60 Hz	75Hz	90Hz	105Hz	120Hz
Amps	6,7	6,7	6,7	6,7	6,7	6,7	6,7	6,7	6,7	6,7
RPM	0	175,5	438,75	877,5	1316,25	1755	2193,75	2632,5	3071,25	3510
Torq ft.lb	11,97	11,97	14,96	14,96	14,96	14,96	11,97	9,98	8,55	7,48
Peak Tq ft.lb	17,96	35,91	35,91	35,91	35,91	35,91	28,73	23,94	20,52	17,96
HP	0	0,4	1,3	2,5	3,8	5,0	5,0	5,0	5,0	5,0
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0,0	756	1440	1755	1800	Continuous	1,25	40°C	3,300 ft	64
Current (Amps)	46,0	39,1	27,4	6,7	3,4	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	27,7	20,8	41,9	15,0	0,0	C.T.	10:1	V.T.	20:1	VFD SF 1.00

Motor Speed Data



Motor Torque Capability vs RPM





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HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
5	460	1755	TEFC	184T	60 Hz	B	4	J	F	42
Load %	0%	25%	50%	75%	100%	125%	150%			
Amps	3,42	3,92	4,48	5,49	6,70	8,01	9,42			
Torq ft/lbs	0	3,67	7,39	11,15	14,96	18,82	22,74			
RPM	0	1788,75	1777,5	1766,25	1755	1743,75	1732,5			
Eff	0	76,50	89,00	89,80	89,50	88,09	87,75			
PF	0	39	62	74	79	82,95	84,925			
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	756	1440	1755	1800	Continuous	1,25	40°C	3,300 ft	64
Current (Amps)	46	39,1	27,4	6,7	3,417	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	27,68	20,76	41,90	14,96	0,0	C.T.	10:1	V.T.	20:1	VFD SF 1.00

