



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

Catalogue #: MQP-44

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
20	14,92	230/460	1,25	90,2%	0,71	324T	B	145

60 Hz								Code	F.L. RPM
208	230	416	460	480	575	600			
/	58	/	29,00	/	/			G	880

50 Hz								
FLA			S.F. @ 50Hz	Efficiency	Power Factor	Code	F.L. RPM	
190	380	415						
67,0	33,5		1,00	88,5%	0,760	E	725	

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
444	3	Cont.	F	40°C	1000M (3,300 Ft)	69

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	90,2%	Full Load:	0,71	Full Load Ft/Lbs	119,4		
3/4 Load:	90,0%	3/4 Load:	0,64	Locked Rotor %	200		
1/2 Load:	89,0%	1/2 Load:	0,51	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
8,31	475	1045	Cast Iron	Cast Iron	Cast Iron	TEFC	IP55	10AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6312	6312	Mobil PolyrexEm	Rigid	Horizontal	RAL6022	67	78

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	1350

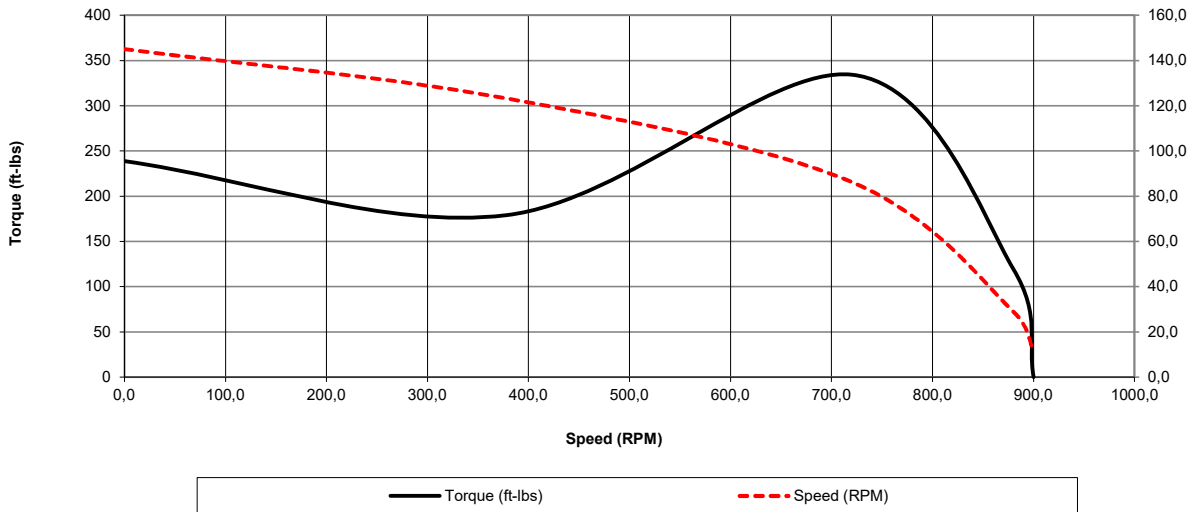


Date: 2023-12-13
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

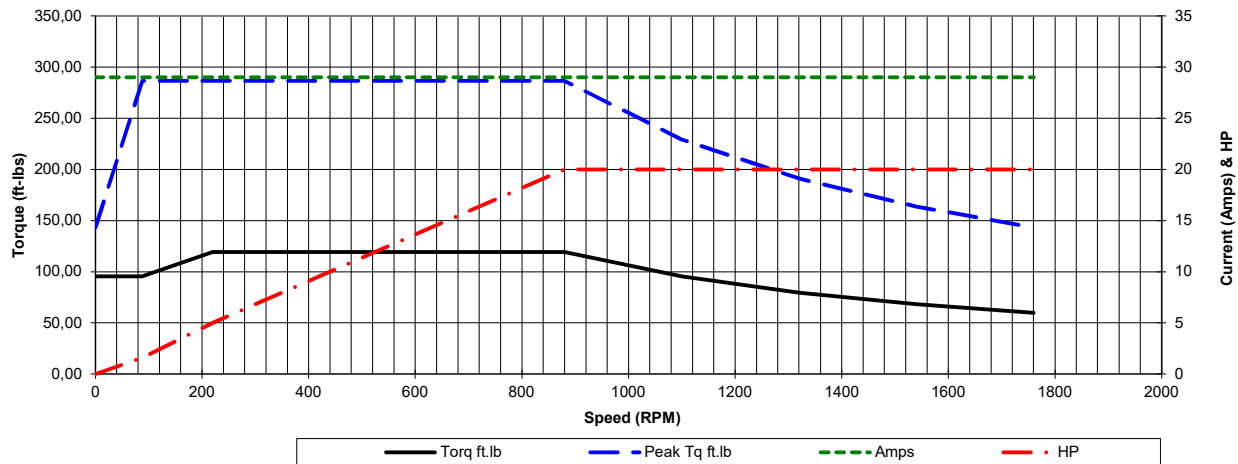
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NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
20	460	880	TEFC	324T	60 Hz	B	8	G	F	69
	0Hz	6Hz	15Hz	30Hz	45Hz	60 Hz	75Hz	90Hz	105Hz	120Hz
Amps	29	29	29	29	29	29	29	29	29	29
RPM	0	88	220	440	660	880	1100	1320	1540	1760
Torq ft.lb	95,49	95,49	119,36	119,36	119,36	119,36	95,49	79,58	68,21	59,68
Peak Tq ft.lb	143,24	286,47	286,47	286,47	286,47	286,47	229,18	190,98	163,70	143,24
HP	0	1,6	5,0	10,0	15,0	20,0	20,0	20,0	20,0	20,0
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0,0	378	720	880	900	Continuous	1,25	40°C	3,300 ft	67
Current (Amps)	145,0	123,3	86,3	29,0	11,0	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	238,7	179,0	334,2	119,4	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
20	460	880	TEFC	324T	60 Hz	B	8	G	F	69
Load %	0%	25%	50%	75%	100%	125%	150%			
Amps	11,02	14,50	17,17	22,65	29,00	36,66	44,25			
Torq ft/lbs	0	29,34	59,01	89,02	119,36	150,06	181,10			
RPM	0	895	890	885	880	875	870			
Eff	0	80,32	89,00	90,00	90,20	88,78	88,43			
PF	0	40,2	51	64	71	71,923	71,781			
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBa @ 1M
Speed (RPM)	0	378	720	880	900	Continuous	1,25	40°C	3,300 ft	67
Current (Amps)	145	123,3	86,3	29	11,02	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	238,73	179,05	334,22	119,36	0,0	C.T.	10:1	V.T.	20:1	VFD SF 1.00

