



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

Catalogue #: MDP-21

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
5	3,73	416	1,25	88,5%	0,9	184T	B	46

60 Hz								Code	F.L. RPM
208	230	416	460	480	575	600			
13,00	/	6,50	/	/	/			J	3515

50 Hz								
FLA			S.F. @ 50Hz	Efficiency	Power Factor	Code	F.L. RPM	
190	380	415						
14,0	7		1,00	86,5%	0,920	G	2900	

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
110	3	Cont.	F	40°C	1000M (3,300 Ft)	42

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	88,5%	Full Load:	0,90	Full Load Ft/Lbs	7,5		
3/4 Load:	88,0%	3/4 Load:	0,85	Locked Rotor %	170		
1/2 Load:	86,5%	1/2 Load:	0,75	Break Down %	285	2	20

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
0,14	8,5	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	78	88

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	5400

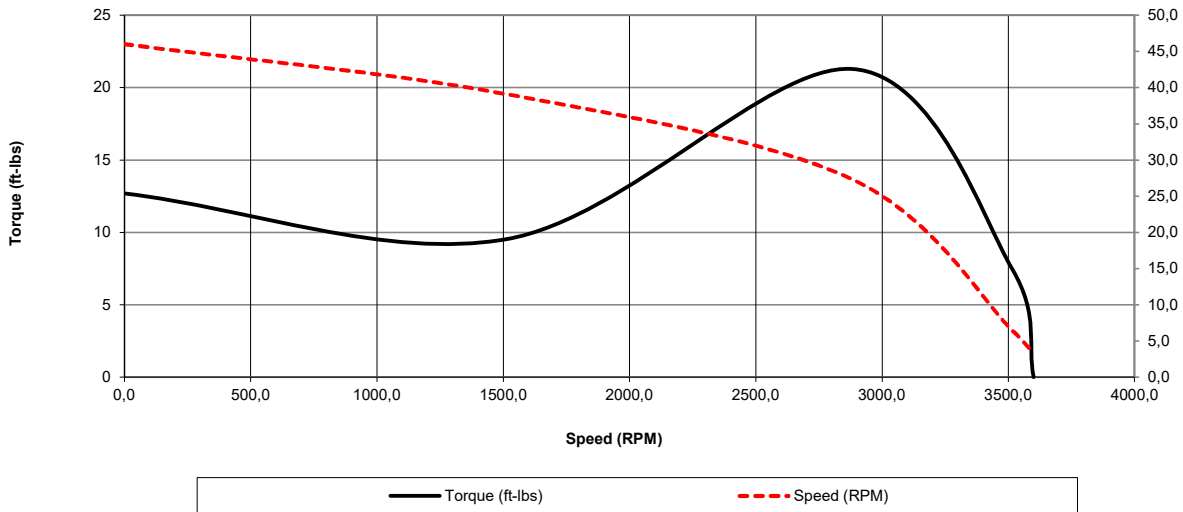


Date: 2024-10-24  
 Customer: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Submittee: J.C. Lavallée

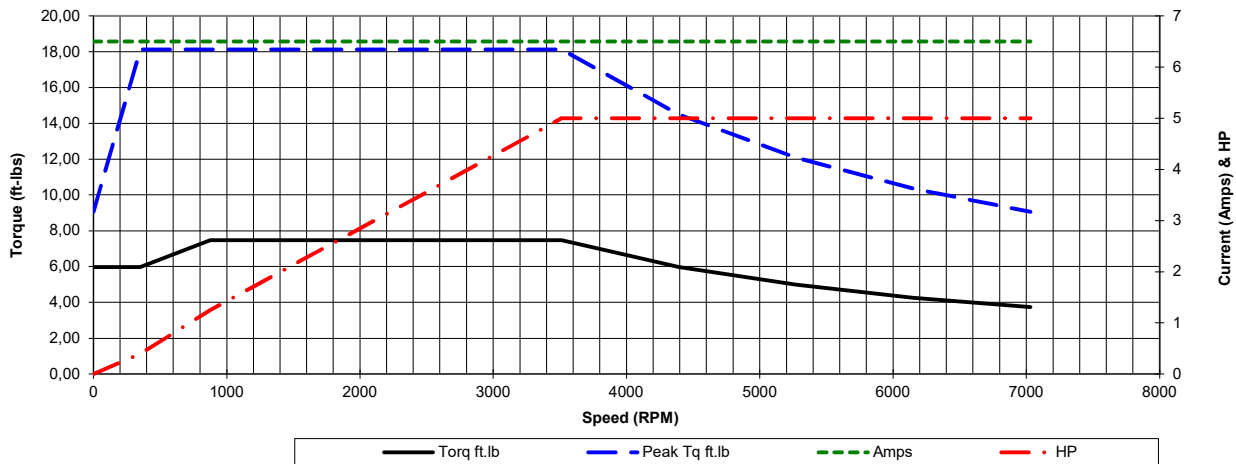
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NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
5	416	3515	TEFC	184T	60 Hz	B	2	J	F	42
	0Hz	6Hz	15Hz	30Hz	45Hz	60 Hz	75Hz	90Hz	105Hz	120Hz
Amps	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
RPM	0	351,5	878,75	1757,5	2636,25	3515	4393,75	5272,5	6151,25	7030
Torq ft.lb	5,98	5,98	7,47	7,47	7,47	7,47	5,98	4,98	4,27	3,74
Peak Tq ft.lb	9,06	18,12	18,12	18,12	18,12	18,12	14,49	12,08	10,35	9,06
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	1512	2880	3515	3600	Continuous	1,25	40°C	3,300 ft	78
Current (Amps)	46,0	39,1	27,4	6,5	3,3	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	12,7	9,5	21,3	7,5	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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NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
5	416	3515	TEFC	184T	60 Hz	B	2	J	F	42
<b>Load %</b>	<b>0%</b>	<b>25%</b>	<b>50%</b>	<b>75%</b>	<b>100%</b>	<b>125%</b>	<b>150%</b>			
<b>Amps</b>	3,32	3,81	4,35	5,32	6,50	7,94	9,29			
<b>Torq ft/lbs</b>	0	1,83	3,69	5,57	7,47	9,40	11,34			
<b>RPM</b>	0	3578,75	3557,5	3536,25	3515	3493,75	3472,5			
<b>Eff</b>	0	63,33	86,50	88,00	88,50	87,11	86,77			
<b>PF</b>	0	53,7	75	85	90	93,6	96,3			
	<b>Locked Rotor</b>	<b>Pull-Up</b>	<b>Breakdown</b>	<b>Rated Load</b>	<b>Idle</b>	<b>Duty</b>	<b>S. F.</b>	<b>Ambient</b>	<b>Elevation</b>	<b>dBA @ 1M</b>
<b>Speed (RPM)</b>	0	1512	2880	3515	3600	Continuous	1,25	40°C	3,300 ft	78
<b>Current (Amps)</b>	46	39,1	27,4	6,5	3,315	<b>VFD Rating: Meets MG1 parts 31.4.4.2</b>				
<b>Torque (ft-lbs)</b>	12,70	9,53	21,29	7,47	0,0	C.T.	10:1	V.T.	20:1	VFD SF 1.00

