



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

Catalogue #: MDP-11

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
2	1,49	416	1,25	85,5%	0,82	145T	B	25

60 Hz								Code	F.L. RPM
208	230	416	460	480	575	600			
5,86	/	2,93	/	/	/			L	3510

50 Hz								
FLA			S.F. @ 50Hz	Efficiency	Power Factor	Code	F.L. RPM	
190	380	415						
6,4	3,2		1,00	84,0%	0,860	J	2870	

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
52	3	Cont.	F	40°C	1000M (3,300 Ft)	32

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	85,5%	Full Load:	0,82	Full Load Ft/Lbs	3,0		
3/4 Load:	83,0%	3/4 Load:	0,74	Locked Rotor %	190		
1/2 Load:	80,0%	1/2 Load:	0,62	Break Down %	285	6,5	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
0,04	3,5	1045	Cast Iron	Cast Iron	Cast Iron	TEFC	IP55	16AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6205	6205	Sealed Bearings	Rigid	Horizontal	RAL6022	76	85

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

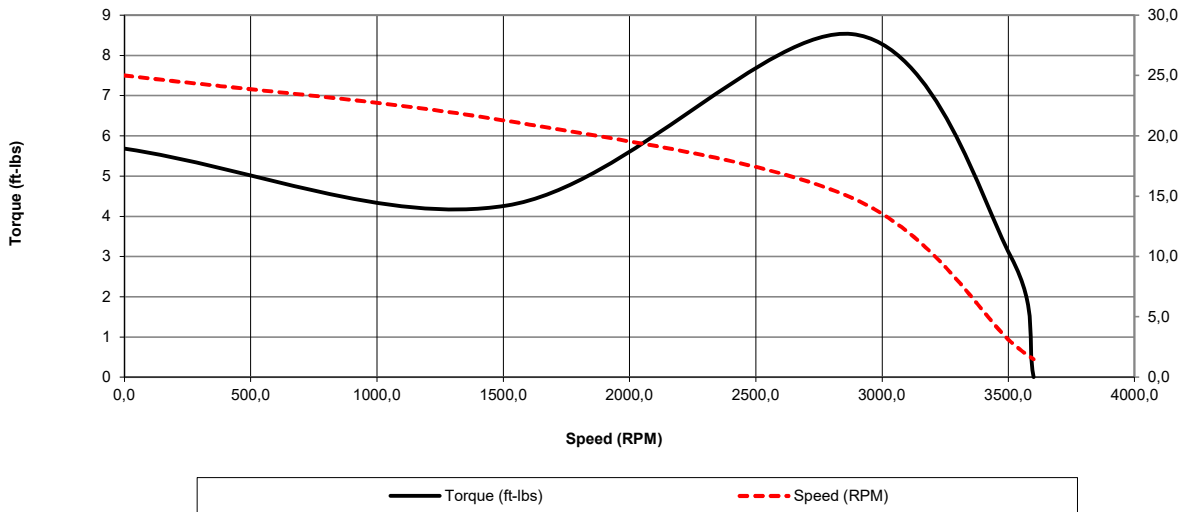


Date: 2024-10-24  
 Customer: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Submittee: J.C. Lavallée

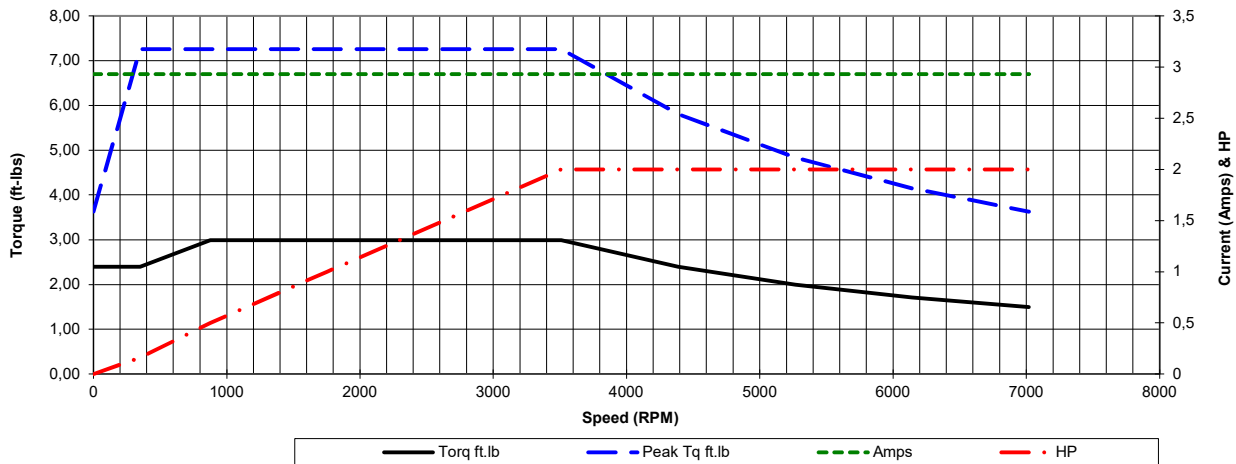
Catalogue #: MDP-11

NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
2	416	3510	TEFC	145T	60 Hz	B	2	L	F	32
	0Hz	6Hz	15Hz	30Hz	45Hz	60 Hz	75Hz	90Hz	105Hz	120Hz
Amps	2,93	2,93	2,93	2,93	2,93	2,93	2,93	2,93	2,93	2,93
RPM	0	351	877,5	1755	2632,5	3510	4387,5	5265	6142,5	7020
Torq ft.lb	2,39	2,39	2,99	2,99	2,99	2,99	2,39	2,00	1,71	1,50
Peak Tq ft.lb	3,63	7,26	7,26	7,26	7,26	7,26	5,81	4,84	4,15	3,63
HP	0	0,2	0,5	1,0	1,5	2,0	2,0	2,0	2,0	2,0
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0,0	1512	2880	3510	3600	Continuous	1,25	40°C	3,300 ft	76
Current (Amps)	25,0	21,3	14,9	2,9	1,5	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft.-lbs)	5,7	4,3	8,5	3,0	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
2	416	3510	TEFC	145T	60 Hz	B	2	L	F	32
Load %	0%	25%	50%	75%	100%	125%	150%			
Amps	1,49	1,72	1,96	2,40	2,93	3,61	4,22			
Torq ft/lbs	0	0,73	1,48	2,23	2,99	3,76	4,55			
RPM	0	3577,5	3555	3532,5	3510	3487,5	3465			
Eff	0	74,33	80,00	83,00	85,50	84,16	83,83			
PF	0	40,6	62	74	82	85,28	87,74			
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	1512	2880	3510	3600	Continuous	1,25	40°C	3,300 ft	76
Current (Amps)	25	21,3	14,9	2,93	1,4943	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	5,69	4,26	8,53	2,99	0,0	C.T.	10:1	V.T.	20:1	VFD SF 1.00

