



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

Catalogue #: MDP-23

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
5	3,73	416	1,25	89,5%	0,73	215T	B	46

60 Hz							Code	F.L. RPM
208	230	416	460	480	575	600		
15,60	/	7,80	/	/	/		J	1180

50 Hz								
FLA			S.F. @ 50Hz	Efficiency	Power Factor	Code	F.L. RPM	
190	380	415						
16,8	8,4		1,00	87,5%	0,770	G	980	

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
162	3	Cont.	F	40°C	1000M (3,300 Ft)	< 80

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	89,5%	Full Load:	0,73	Full Load Ft/Lbs	22,3		
3/4 Load:	89,0%	3/4 Load:	0,66	Locked Rotor %	190		
1/2 Load:	87,5%	1/2 Load:	0,54	Break Down %	280	0	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
0,85	103	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						
6308	6308	Sealed Bearings	Rigid	Horizontal	RAL6022	61	71

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	1800

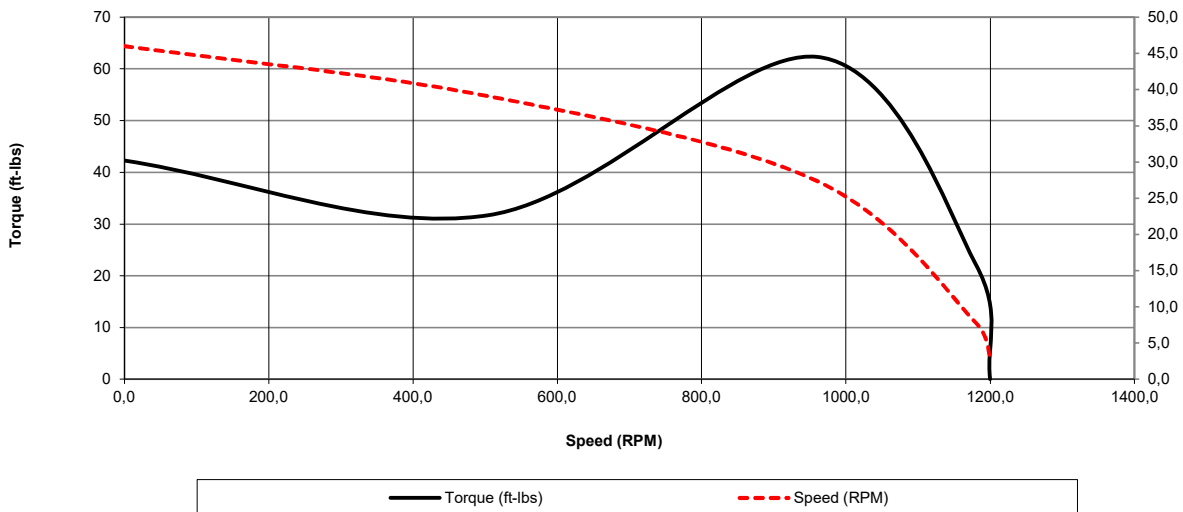


Date: 2024-10-24
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 Submittee: J.C. Lavallée

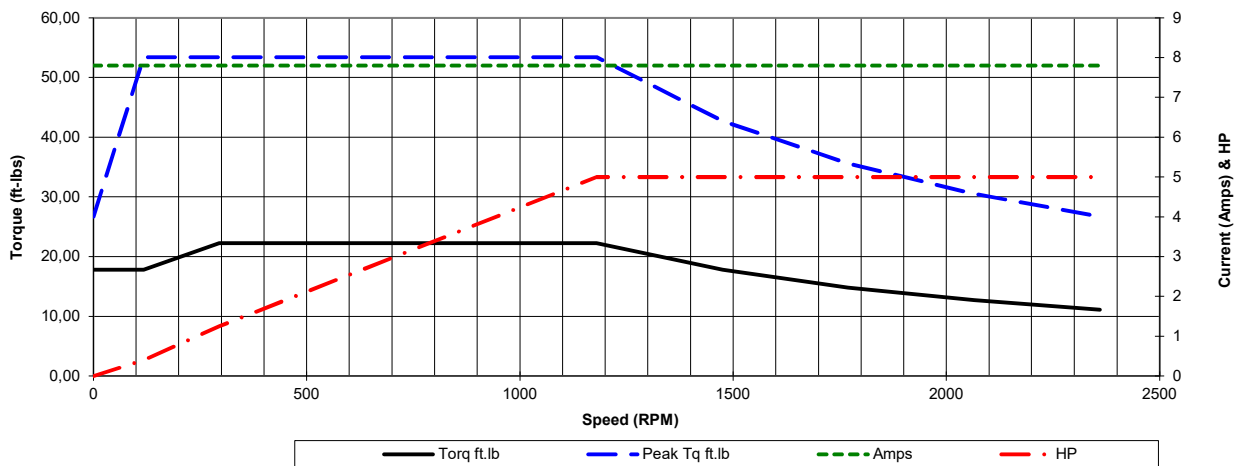
Catalogue #: MDP-23

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	1180	TEFC	215T	60 Hz	B	6	J	F	< 80
	0Hz	6Hz	15Hz	30Hz	45Hz	60 Hz	75Hz	90Hz	105Hz	120Hz
Amps	7,8	7,8	7,8	7,8	7,8	7,8	7,8	7,8	7,8	7,8
RPM	0	118	295	590	885	1180	1475	1770	2065	2360
Torq ft.lb	17,80	17,80	22,25	22,25	22,25	22,25	17,80	14,84	12,72	11,13
Peak Tq ft.lb	26,71	53,41	53,41	53,41	53,41	53,41	42,73	35,61	30,52	26,71
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	504	960	1180	1200	Continuous	1,25	40°C	3,300 ft	61
Current (Amps)	46,0	39,1	27,4	7,8	3,0	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft.-lbs)	42,3	31,7	62,3	22,3	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	416	1180	TEFC	215T	60 Hz	B	6	J	F	< 80
Load %	0%	25%	50%	75%	100%	125%	150%			
Amps	2,96	3,33	4,62	6,09	7,80	9,68	11,33			
Torq ft/lbs	0	5,49	11,03	16,62	22,25	27,94	33,67			
RPM	0	1195	1190	1185	1180	1175	1170			
Eff	0	61,00	87,50	89,00	89,50	88,09	87,75			
PF	0	63,7	54	66	73	75,92	78,11			
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	504	960	1180	1200	Continuous	1,25	40°C	3,300 ft	61
Current (Amps)	46	39,1	27,4	7,8	2,964	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	42,28	31,71	62,31	22,25	0,0	C.T.	10:1	V.T.	20:1	VFD SF 1.00

