



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

Catalogue #: **MQOP-62**

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
50	37,30	230/460	1,15	94,5%	0,83	326T	B	362

60 Hz							Code	F.L. RPM
208	230	416	460	480	575	600		
/	118	/	59,00	/	/		G	1778

50 Hz								
FLA			S.F. @ 50Hz		Efficiency	Power Factor	Code	F.L. RPM
190	380	415						
143,0	71,5		1,00		93,0%	0,850	D	1475

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
594	3	Cont.	F	40°C	1000M (3,300 Ft)	61

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	94,5%	Full Load:	0,83	Full Load Ft/Lbs	147,7		
3/4 Load:	94,5%	3/4 Load:	0,80	Locked Rotor %	170		
1/2 Load:	94,0%	1/2 Load:	0,70	Break Down %	260	0,15	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
7,59	340	1045	Cast Iron	Cast Iron	Cast Iron	ODP	IP23	8AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6312	6312	Mobil PolyrexEm	Rigid	Horizontal	RAL6022	78	89

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

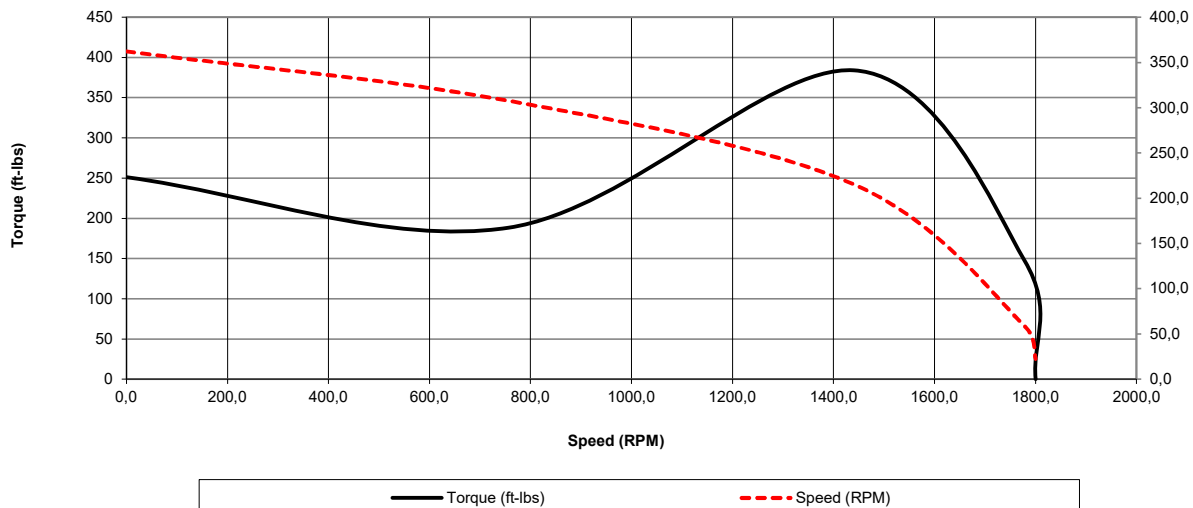


Date: 2023-12-13
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

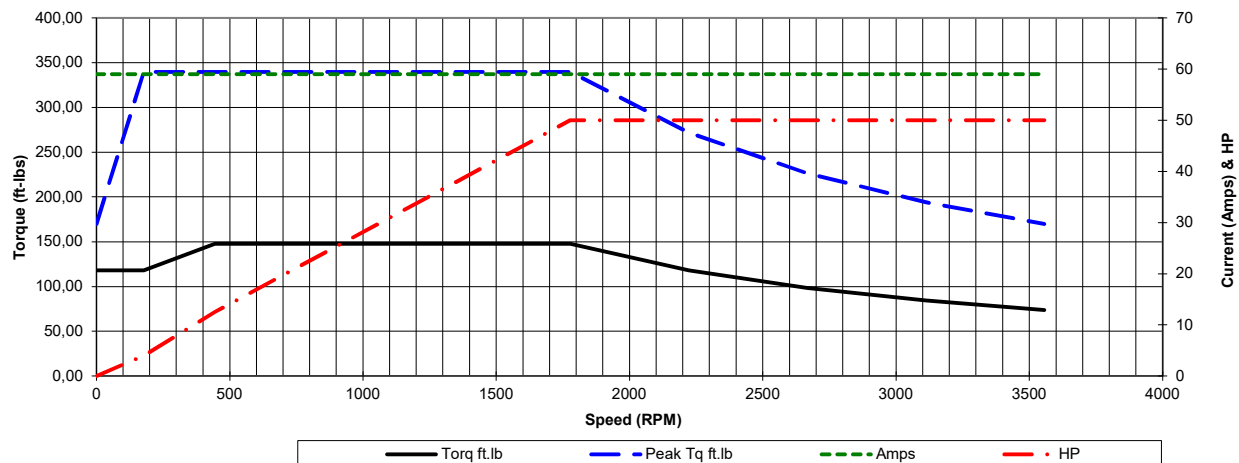
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NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
50	460	1778	ODP	326T	60 Hz	B	4	G	F	61
	0Hz	6Hz	15Hz	30Hz	45Hz	60 Hz	75Hz	90Hz	105Hz	120Hz
Amps	59	59	59	59	59	59	59	59	59	59
RPM	0	177,8	444,5	889	1333,5	1778	2222,5	2667	3111,5	3556
Torq ft.lb	118,16	118,16	147,69	147,69	147,69	147,69	118,16	98,46	84,40	73,85
Peak Tq ft.lb	169,85	339,70	339,70	339,70	339,70	339,70	271,76	226,46	194,11	169,85
HP	0	4,0	12,5	25,0	37,5	50,0	50,0	50,0	50,0	50,0
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0,0	756	1440	1778	1800	Continuous	1,15	40°C	3,300 ft	78
Current (Amps)	362,0	307,7	215,4	59,0	22,4	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft.-lbs)	251,1	188,3	384,0	147,7	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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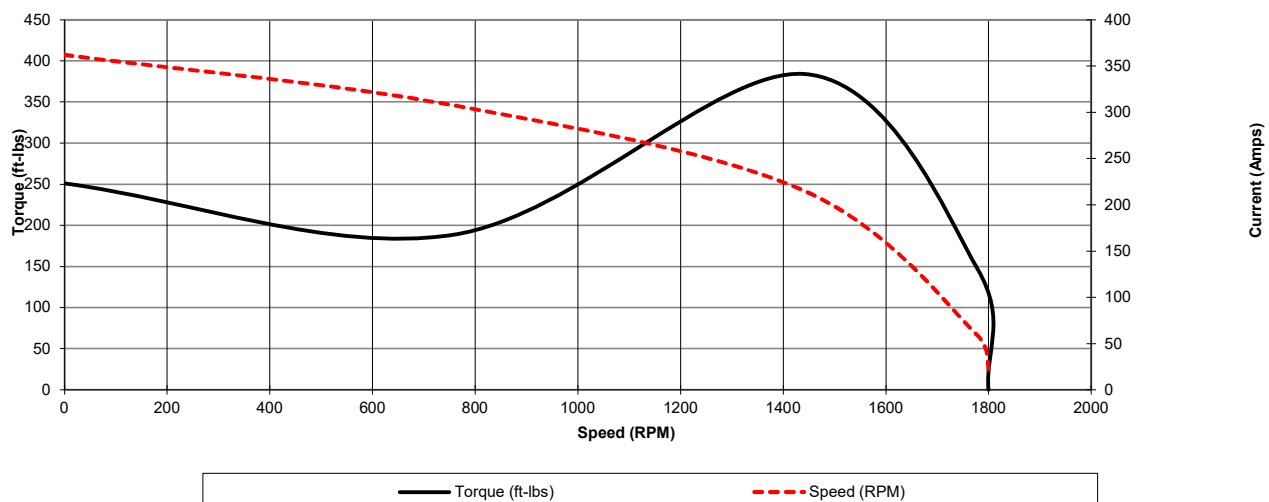
NEMA PREMIUM NR CAN NEMA 12 - 12

HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
50	460	1778	ODP	326T	60 Hz	B	4	G	F	61

Load %	0%	25%	50%	75%	100%	125%	150%
Amps	22,42	25,19	34,93	46,08	59,00	75,05	92,24
Torq ft/lbs	0	36,58	73,39	110,43	147,69	185,19	222,92
RPM	0	1794,5	1789	1783,5	1778	1772,5	1767
Eff	0	84,47	94,00	94,50	94,50	93,01	92,65
PF	0	55	70	80	83	83,83	82,17

	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	756	1440	1778	1800	Continuous	1,15	40°C	3,300 ft	78
Current (Amps)	362	307,7	215,4	59	22,42	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	251,08	188,31	384,00	147,69	0,0	C.T.	10:1	V.T.	20:1	VFD SF 1.00

Motor Speed Data



Motor Load Data

