



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

Catalogue #: **MQP-43**

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
20	14,92	230/460	1,25	91,7%	0,78	286T	B	145

60 Hz							Code	F.L. RPM
208	230	416	460	480	575	600		
/	52	/	26,00	/	/		G	1185

50 Hz								
FLA			S.F. @ 50Hz		Efficiency	Power Factor	Code	F.L. RPM
190	380	415						
62,0	31		1,00		89,5%	0,780	E	975

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
394	3	Cont.	F	40°C	1000M (3,300 Ft)	60

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	91,7%	Full Load:	0,78	Full Load Ft/Lbs	88,6		
3/4 Load:	91,7%	3/4 Load:	0,73	Locked Rotor %	160		
1/2 Load:	91,5%	1/2 Load:	0,61	Break Down %	250	0,55	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
5,70	385	1045	Cast Iron	Cast Iron	Cast Iron	TEFC	IP55	12AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6311	6311	Mobil PolyrexEm	Rigid	Horizontal	RAL6022	69	80

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

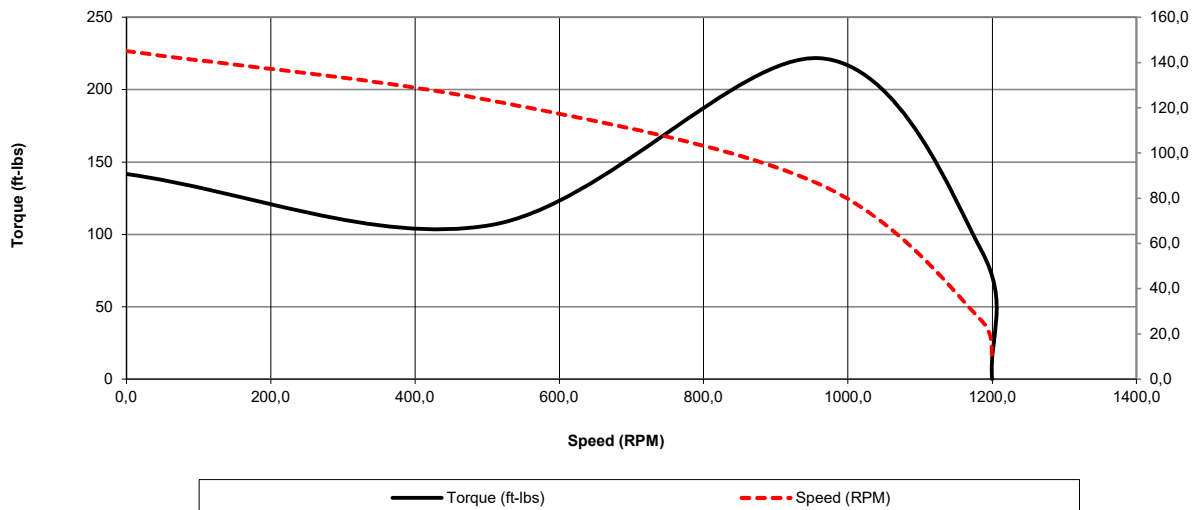


Date: 2023-12-13
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

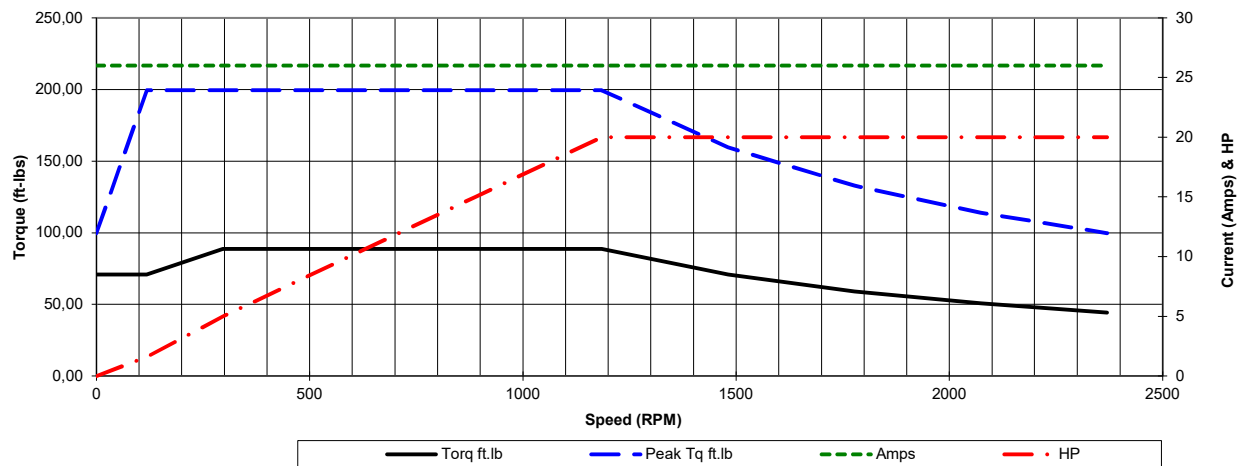
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NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
20	460	1185	TEFC	286T	60 Hz	B	6	G	F	60
	0Hz	6Hz	15Hz	30Hz	45Hz	60 Hz	75Hz	90Hz	105Hz	120Hz
Amps	26	26	26	26	26	26	26	26	26	26
RPM	0	118,5	296,25	592,5	888,75	1185	1481,25	1777,5	2073,75	2370
Torq ft.lb	70,91	70,91	88,64	88,64	88,64	88,64	70,91	59,09	50,65	44,32
Peak Tq ft.lb	99,72	199,44	199,44	199,44	199,44	199,44	159,55	132,96	113,97	99,72
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	504	960	1185	1200	Continuous	1,25	40°C	3,300 ft	69
Current (Amps)	145,0	123,3	86,3	26,0	9,9	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft.-lbs)	141,8	106,4	221,6	88,6	0,0	C.T.	10:1	V.T.	20:1	VFD SF 1.00

Motor Speed Data



Motor Torque Capability vs RPM

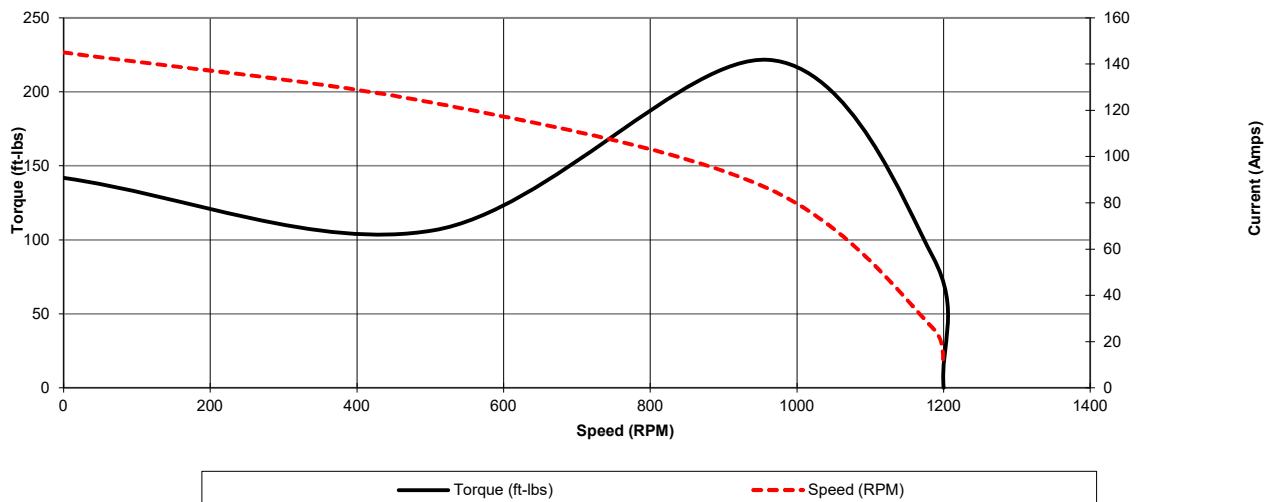


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HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
20	460	1185	TEFC	286T	60 Hz	B	6	G	F	60
Load %	0%	25%	50%	75%	100%	125%	150%			
Amps	9,88	13,00	15,39	20,31	26,00	32,82	39,62			
Torq ft/lbs	0	21,95	44,04	66,27	88,64	111,15	133,81			
RPM	0	1196,25	1192,5	1188,75	1185	1181,25	1177,5			
Eff	0	89,58	91,50	91,70	91,70	90,26	89,90			
PF	0	40,2	61	73	78	79,014	78,858			
Speed (RPM)	0	504	960	1185	1200	Continuous	1,25	Ambient 40°C	Elevation 3,300 ft	dBa @ 1M 69
Current (Amps)	145	123,3	86,3	26	9,88	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	141,83	106,37	221,60	88,64	0,0	C.T.	10:1	V.T.	20:1	VFD SF 1.00

Motor Speed Data



Motor Load Data

