



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

Catalogue #: MQP-42

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
20	14,92	230/460	1,25	93,0%	0,83	256T	B	145

60 Hz								Code	F.L. RPM
208	230	416	460	480	575	600			
/	48	/	24,00	/	/			G	1760

50 Hz								
FLA			S.F. @ 50Hz	Efficiency	Power Factor	Code	F.L. RPM	
190	380	415						
58,0	29		1,00	91,7%	0,850	D	1460	

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
315	3	Cont.	F	40°C	1000M (3,300 Ft)	52

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	83,0%	Full Load:	0,83	Full Load Ft/Lbs	59,7		
3/4 Load:	93,2%	3/4 Load:	0,78	Locked Rotor %	160		
1/2 Load:	93,0%	1/2 Load:	0,67	Break Down %	260	0,42	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
2,37	142	1045	Cast Iron	Cast Iron	Cast Iron	TEFC	IP55	12AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6309	6309	Mobil PolyrexEm	Rigid	Horizontal	RAL6022	74	84

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

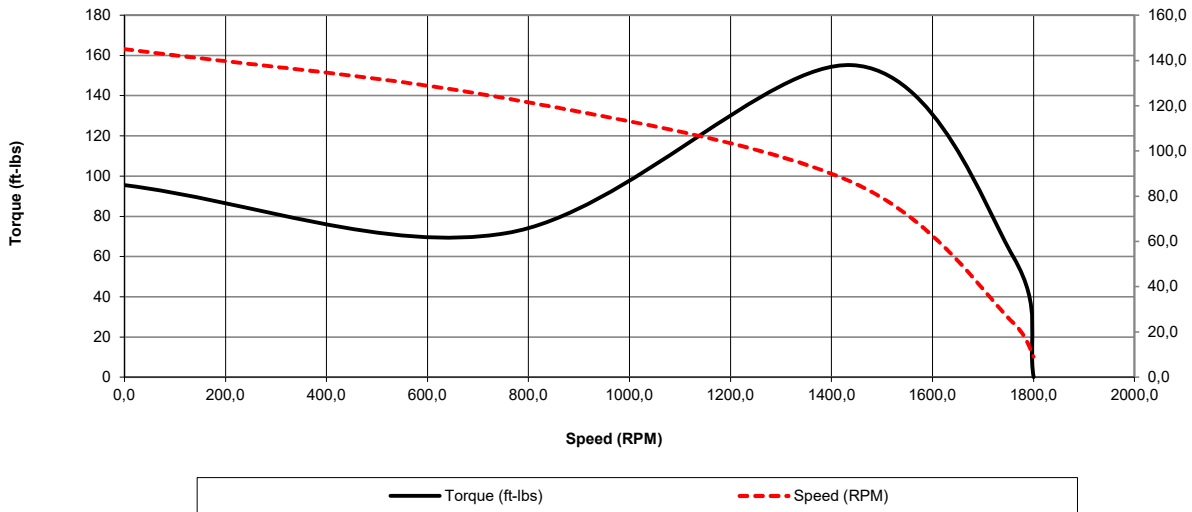


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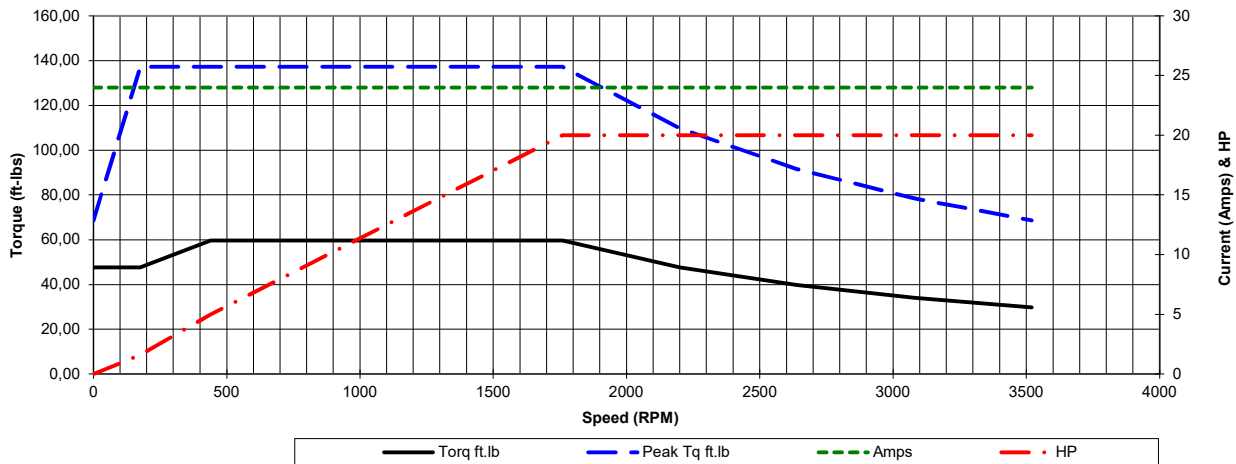
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NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
20	460	1760	TEFC	256T	60 Hz	B	4	G	F	52
	0Hz	6Hz	15Hz	30Hz	45Hz	60 Hz	75Hz	90Hz	105Hz	120Hz
Amps	24	24	24	24	24	24	24	24	24	24
RPM	0	176	440	880	1320	1760	2200	2640	3080	3520
Torq ft.lb	47,75	47,75	59,68	59,68	59,68	59,68	47,75	39,79	34,10	29,84
Peak Tq ft.lb	68,63	137,27	137,27	137,27	137,27	137,27	109,81	91,51	78,44	68,63
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	756	1440	1760	1800	Continuous	1,25	40°C	3,300 ft	74
Current (Amps)	145,0	123,3	86,3	24,0	9,1	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	95,5	71,6	155,2	59,7	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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HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
20	460	1760	TEFC	256T	60 Hz	B	4	G	F	52
Load %	0%	25%	50%	75%	100%	125%	150%			
Amps	9,12	11,52	14,21	18,74	24,00	34,08	41,14			
Torq ft/lbs	0	14,67	29,51	44,51	59,68	75,03	90,55			
RPM	0	1790	1780	1770	1760	1750	1740			
Eff	0	87,59	93,00	93,20	83,00	81,70	81,37			
PF	0	46,4	67	78	83	84,079	83,913			
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBa @ 1M
Speed (RPM)	0	756	1440	1760	1800	Continuous	1,25	40°C	3,300 ft	74
Current (Amps)	145	123,3	86,3	24	9,12	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	95,49	71,62	155,17	59,68	0,0	C.T.	10:1	V.T.	20:1	VFD SF 1.00

