



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

Catalogue #: MQP-84

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
125	93,25	460	1,15	94,1%	0,79	447T	B	907

60 Hz								Code	F.L. RPM
208	230	416	460	480	575	600			
/	/	/	158,00	/	/			G	890

50 Hz								
FLA			S.F. @ 50Hz	Efficiency	Power Factor	Code	F.L. RPM	
190	380	415						
/	190		1,00	92,4%	0,810	F	735	

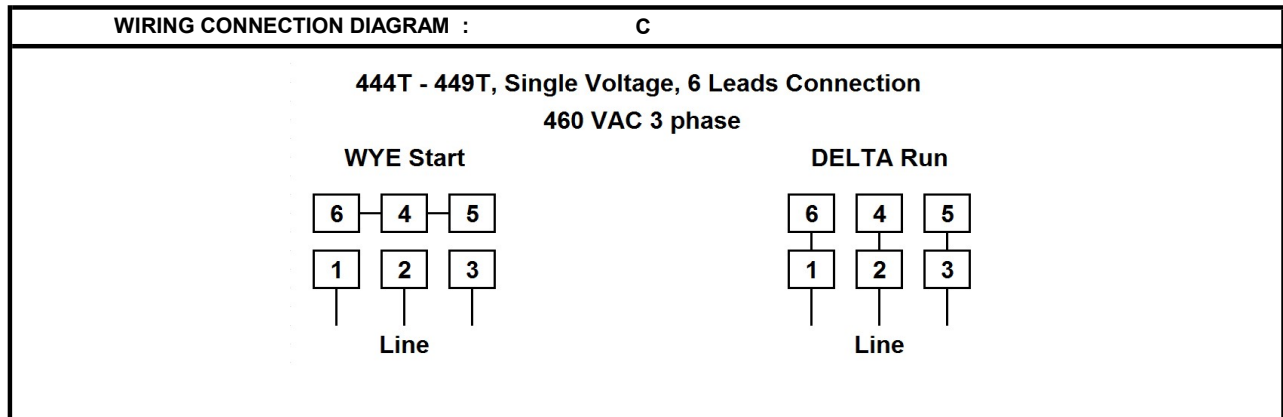
Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
1680	3	Cont.	F	40°C	1000M (3,300 Ft)	< 80

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	94,1%	Full Load:	0,79	Full Load Ft/Lbs	737,6		
3/4 Load:	94,1%	3/4 Load:	0,75	Locked Rotor %	200		
1/2 Load:	93,5%	1/2 Load:	0,64	Break Down %	230	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
109,16	2170	1045	Cast Iron	Cast Iron	Cast Iron	TEFC	IP55	4AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
NU319	6318	Mobil PolyrexEm	Rigid	Horizontal	RAL6022	78	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	1350

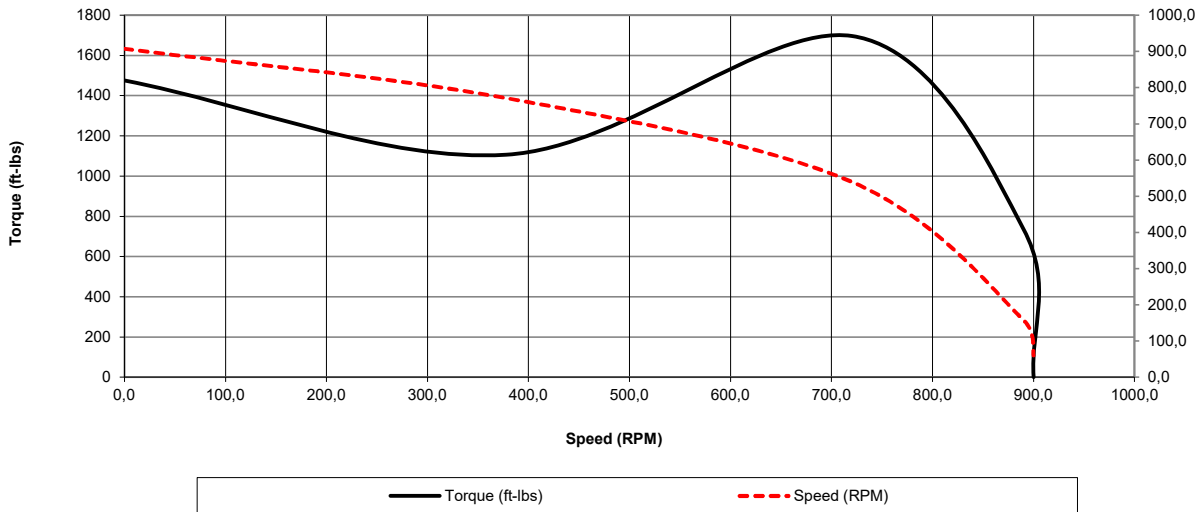


Date: 2023-12-13  
 Customer: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Submittee: J.C. Lavallée

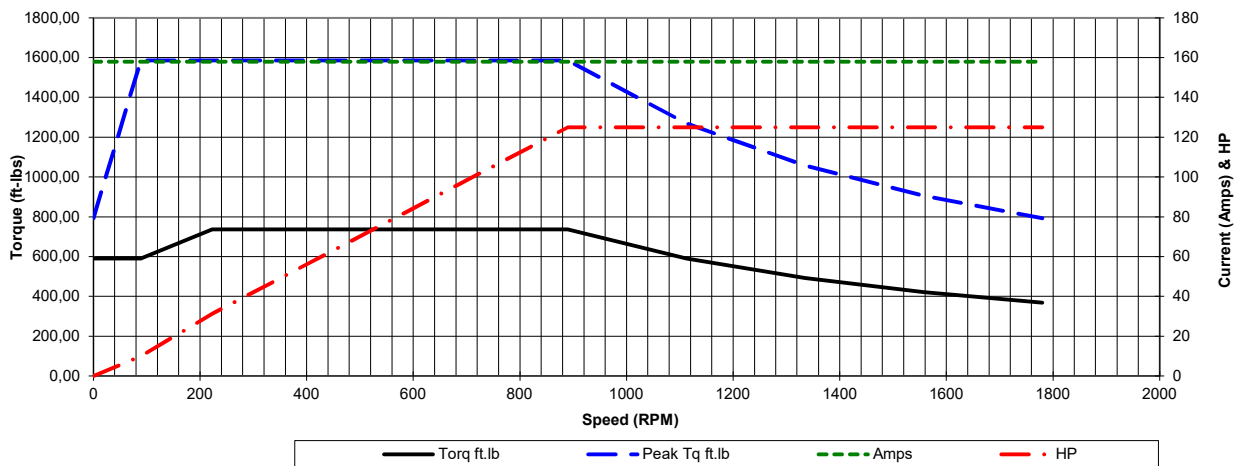
Catalogue #: **MQP-84**

NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
125	460	890	TEFC	447T	60 Hz	B	8	G	F	< 80
	0Hz	6Hz	15Hz	30Hz	45Hz	60 Hz	75Hz	90Hz	105Hz	120Hz
Amps	158	158	158	158	158	158	158	158	158	158
RPM	0	89	222,5	445	667,5	890	1112,5	1335	1557,5	1780
Torq ft.lb	590,11	590,11	737,64	737,64	737,64	737,64	590,11	491,76	421,51	368,82
Peak Tq ft.lb	792,96	1585,93	1585,93	1585,93	1585,93	1585,93	1268,74	1057,28	906,24	792,96
HP	0	10,0	31,3	62,5	93,8	125,0	125,0	125,0	125,0	125,0
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0,0	378	720	890	900	Continuous	1,15	40°C	3,300 ft	78
Current (Amps)	907,0	771,0	539,7	158,0	60,0	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft.-lbs)	1475,3	1106,5	1696,6	737,6	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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NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
125	460	890	TEFC	447T	60 Hz	B	8	G	F	< 80
<b>Load %</b>	<b>0%</b>	<b>25%</b>	<b>50%</b>	<b>75%</b>	<b>100%</b>	<b>125%</b>	<b>150%</b>			
<b>Amps</b>	60,04	56,88	93,54	123,40	158,00	197,97	243,32			
<b>Torq ft/lbs</b>	0	182,87	366,76	551,68	737,64	924,65	1112,71			
<b>RPM</b>	0	897,5	895	892,5	890	887,5	885			
<b>Eff</b>	0	92,69	93,50	94,10	94,10	92,62	92,26			
<b>PF</b>	0	55,5	64	75	79	79,79	78,21			
	<b>Locked Rotor</b>	<b>Pull-Up</b>	<b>Breakdown</b>	<b>Rated Load</b>	<b>Idle</b>	<b>Duty</b>	<b>S. F.</b>	<b>Ambient</b>	<b>Elevation</b>	<b>dBA @ 1M</b>
<b>Speed (RPM)</b>	0	378	720	890	900	Continuous	1,15	40°C	3,300 ft	78
<b>Current (Amps)</b>	907	771,0	539,7	158	60,04	<b>VFD Rating: Meets MG1 parts 31.4.4.2</b>				
<b>Torque (ft-lbs)</b>	1475,28	1106,46	1696,57	737,64	0,0	C.T.	10:1	V.T.	20:1	VFD SF 1.00

