



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

Catalogue #: MPOP-78

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
100	74,60	575	1,15	95,0%	0,84	444T	B	580

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
/	/	/	/	/	93,6	89,70	G	1190

50 Hz								
FLA			S.F. @ 50Hz	Efficiency	Power Factor	Code	F.L. RPM	
190	380	415						
/	/	/	/	/	/	/	/	

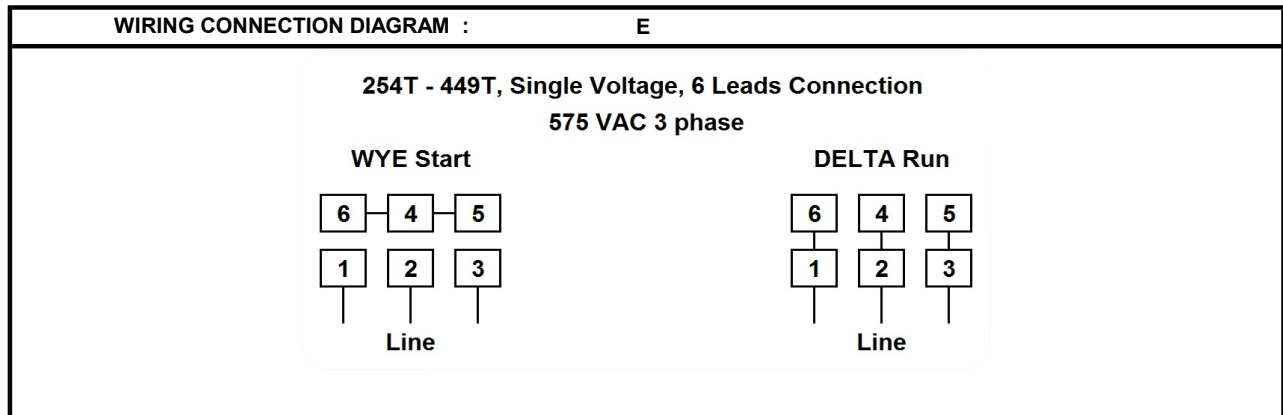
Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
1320	3	Cont.	F	40°C	1000M (3,300 Ft)	< 80

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	95,0%	Full Load:	0,84	Full Load Ft/Lbs	441,3		
3/4 Load:	94,5%	3/4 Load:	0,82	Locked Rotor %	150		
1/2 Load:	94,5%	1/2 Load:	0,75	Break Down %	245	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
80,68	1610	Standard	Cast Iron	Standard	Standard	ODP	IP23	6AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
NU319	6318	Mobil PolyrexEm	Rigid	Horizontal	(Olive Drab M	82	94

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

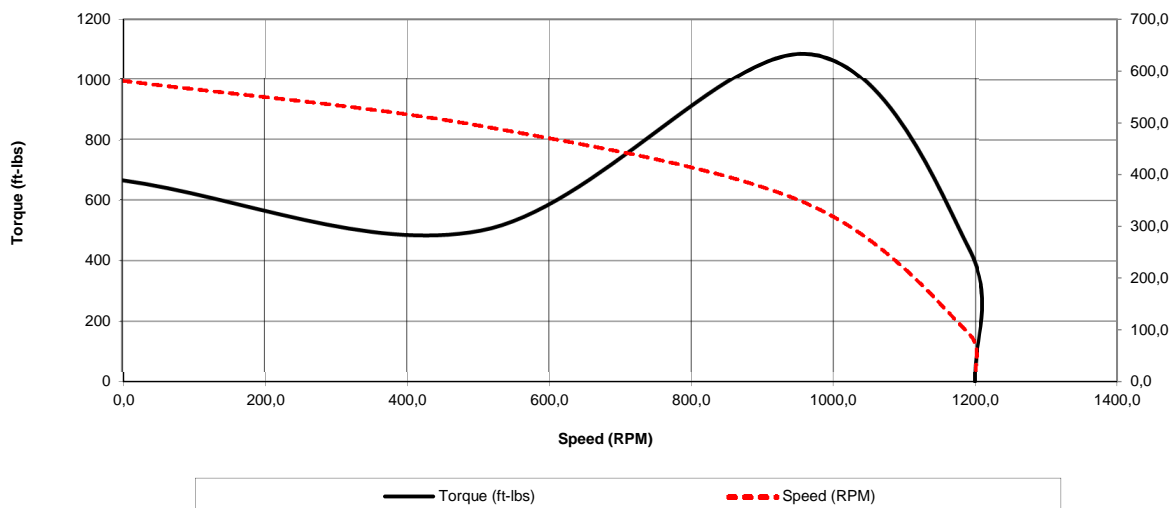


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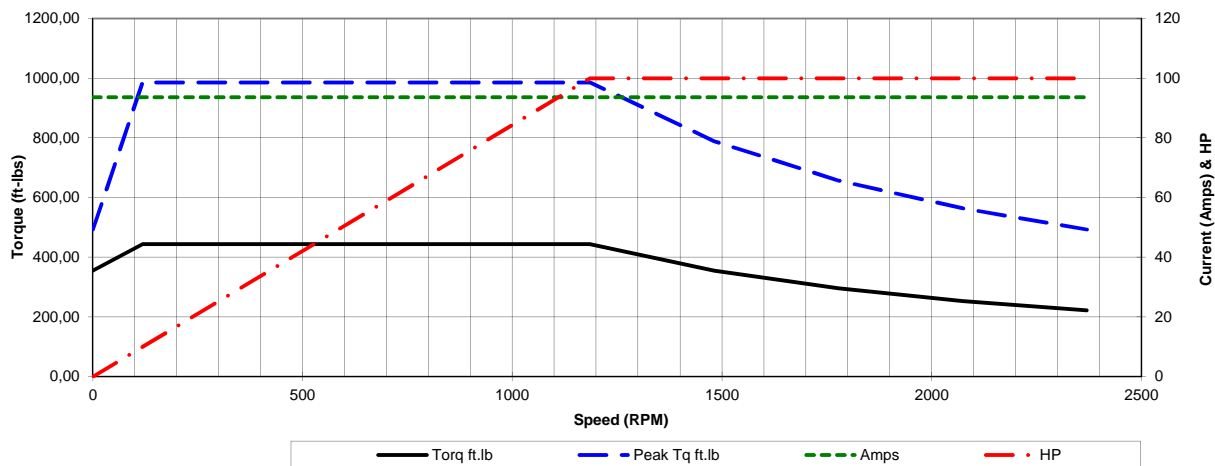
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NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
100	575	1190	ODP	444T	60	B	6	G	F	< 80
	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	93,6	93,6	93,6	93,6	93,6	93,6	93,6	93,6	93,6	93,6
RPM	0	118,5	296,25	592,5	888,75	1185	1481,25	1777,5	2073,75	2370
Torq ft.lb	354,57	443,21	443,21	443,21	443,21	443,21	354,57	295,47	253,26	221,60
Peak Tq ft.lb	493,07	986,14	986,14	986,14	986,14	986,14	788,91	657,42	563,51	493,07
HP	0	10,0	25,0	50,0	75,0	100,0	100,0	100,0	100,0	100,0
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0,0	504	960	1190	1200	Continuous	1,15	40°C	3300 ft	82
Current (Amps)	580,0	493,0	345,1	93,6	23,5	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	664,8	498,6	1085,9	443,2	0,0	C.T.	10:1	V.T.	20:1	

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
100	575	1190	ODP	444T	60	B	6	G	F	< 80
Load %	0%	25%	50%	75%	100%	125%	150%			
Amps	23,49	33,46	51,39	71,60	93,60	117,33	143,01			
Torq ft/lbs	0	109,76	220,21	331,36	443,21	555,77	669,04			
RPM	0	1196,25	1192,5	1188,75	1185	1181,25	1177,5			
Eff	0	86,10	94,50	94,50	95,00	95,00	95,00			
PF	0	65	75	82	84	84	82,7			
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	504	960	1190	1200	Continuous	1,15	40°C	3300 ft	82
Current (Amps)	580	493,0	345,1	93,6	23,4936	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	664,81	498,61	1085,86	443,21	0,0	C.T.	10:1	V.T.	20:1	

