

PERFORMANCE DATA SHEET NEMA PREMIUM NR CAN NEMA 12 - 12

Catalogue #: **MPOP-53**

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
30	22.38	575	1.15	93.6%	0.79	326T	B	174

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
/	/	/	/	/	30.5	29.22	G	1185

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

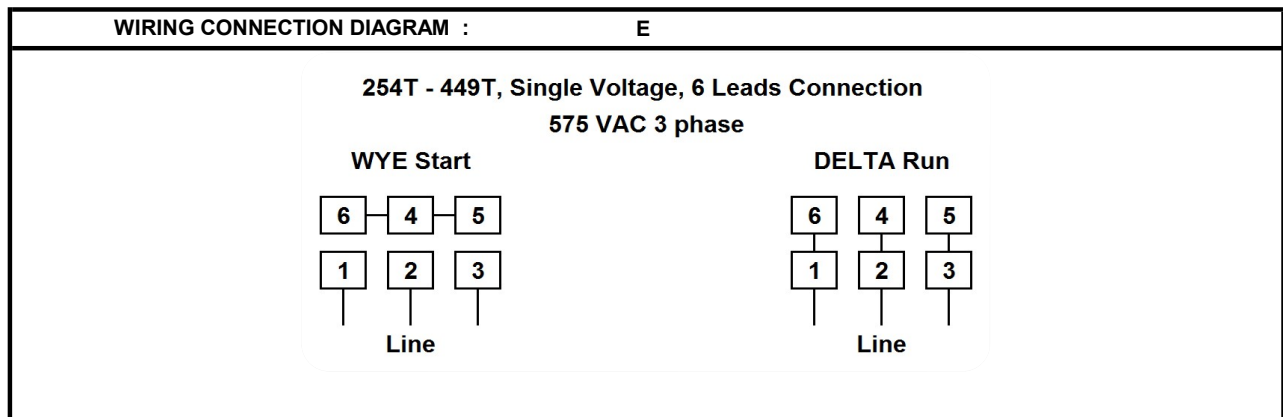
Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
537	3	Cont.	F	40°C	1000M (3300 Ft)	60

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	93.6%	Full Load:	0.79	Full Load Ft/Lbs	133.0		
3/4 Load:	93.0%	3/4 Load:	0.75	Locked Rotor %	180		
1/2 Load:	92.5%	1/2 Load:	0.64	Break Down %	270	0.48	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
9.49	520	Standard	Cast Iron	Standard	Standard	ODP	IP23	10AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6312	6312	Mobil PolyrexEm	Rigid	Horizontal	Green	72	83

Inverter Duty. Motor meets MG1 parts 31.4.4.2	Constant Torque Range	Variable Torque Range	Constant HP RPM
	10:1	20:1	1800

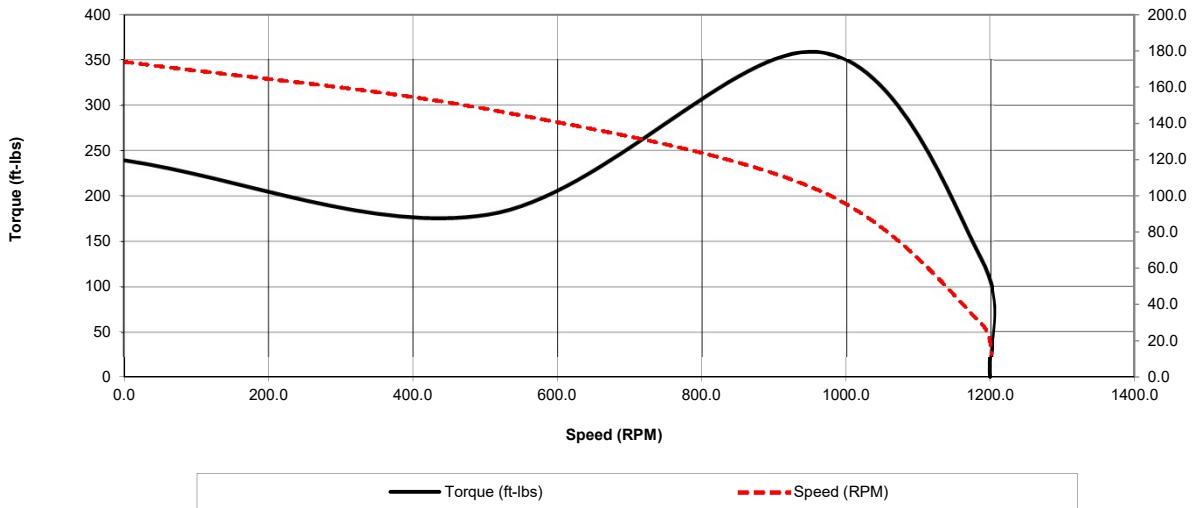


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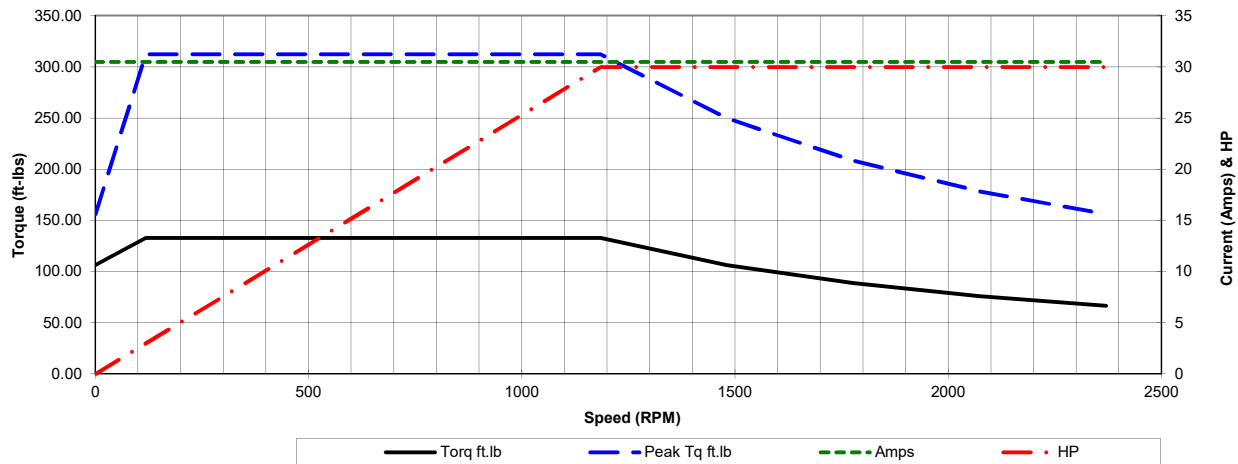
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NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
30	575	1185	ODP	326T	60	B	6	G	F	60
	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
RPM	0	118.5	296.25	592.5	888.75	1185	1481.25	1777.5	2073.75	2370
Torq ft.lb	106.37	132.96	132.96	132.96	132.96	132.96	106.37	88.64	75.98	66.48
Peak Tq ft.lb	156.23	312.46	312.46	312.46	312.46	312.46	249.97	208.31	178.55	156.23
HP	0	3.0	7.5	15.0	22.5	30.0	30.0	30.0	30.0	30.0
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0.0	504	960	1185	1200	Continuous	1.15	40°C	3300 ft	72
Current (Amps)	174.0	147.9	103.5	30.5	13.2	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	239.3	179.5	359.0	133.0	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
30	575	1185	ODP	326T	60	B	6	G	F	60
Load %	0%	25%	50%	75%	100%	125%	150%			
Amps	13.20	14.70	18.60	23.70	30.50	37.10	44.13			
Torq ft/lbs	0	32.38	64.91	97.58	130.44	163.60	197.01			
RPM	0	1196.25	1192.5	1188.75	1185	1181.25	1177.5			
Eff	0	92.09	92.50	93.00	93.60	93.60	93.60			
PF	0	41.5	64	75	79	80.9	81.6			
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	504	960	1185	1200	Continuous	1.15	40°C	3300 ft	72
Current (Amps)	174	147.9	103.5	30.5	13.2	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	239.33	179.50	359.00	132.96	0.0	C.T.	10:1	V.T.	20:1	

