



PERFORMANCE DATA SHEET

Meets or exceeds MEPS, as described by the US DOE in docket 10CFR431 and NRCAN's Amendment 14

Catalogue #: **MPS-90S6FC-S3**

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
1	0.75	575	1.15	82.5%	0.540	90S	B	16

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
/	/	/	/	/	1.68	/	K	1165

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
44	3	Cont.	F	40°C	1000M (3300 Ft)	60

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	82.5%	Full Load:	0.54	Full Load Ft/Lbs	4.5		
3/4 Load:	79.1%	3/4 Load:	0.49	Locked Rotor %	210	/	20
1/2 Load:	71.8%	1/2 Load:	0.39	Break Down %	310		

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
/	/	Stainless Steel 304				TEFC	IP66	0

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6205	6205	Sealed Bearings	Rigid	Horizontal	-	/	/

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

WIRING CONNECTION DIAGRAM :	D	Nema C (IEC L) Dimension (mm)	370 mm
<p>63 - 132, Single Voltage, DOL, 3 Leads WYE Connection 575 VAC 3 phase</p>			

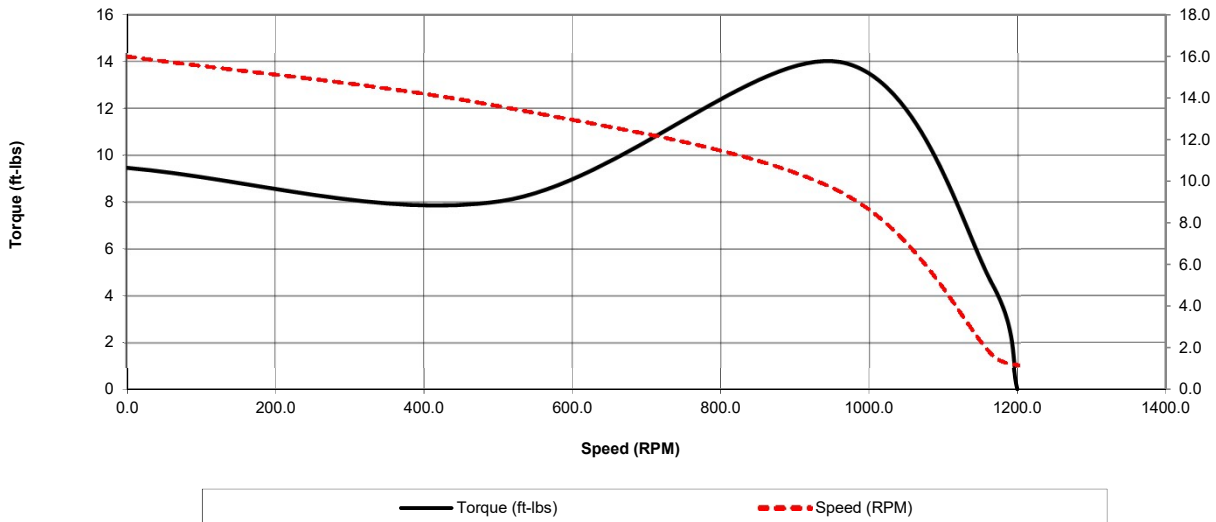
Date: 2021-11-27
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

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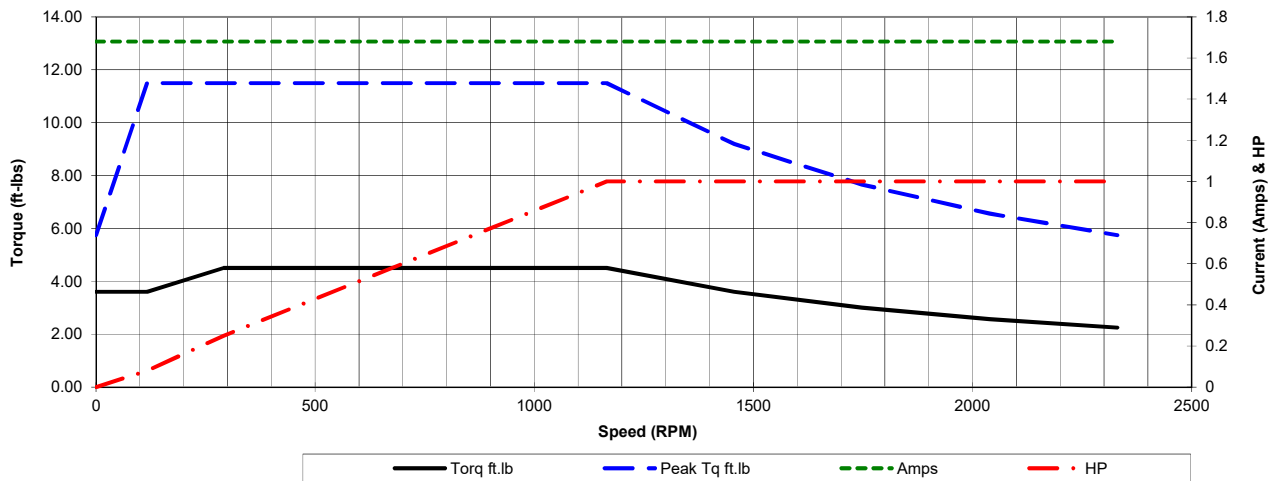
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HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
1	575	1165	TEFC	90S	60	B	6	K	F	60
	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
RPM	0	116.5	291.25	582.5	873.75	1165	1456.25	1747.5	2038.75	2330
Torq ft.lb	3.61	3.61	4.51	4.51	4.51	4.51	3.61	3.01	2.58	2.25
Peak Tq ft.lb	5.75	11.50	11.50	11.50	11.50	11.50	9.20	7.66	6.57	5.75
HP	0	0.1	0.3	0.5	0.8	1.0	1.0	1.0	1.0	1.0
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0.0	504	960	1165	1200	Continuous	1.15	40°C	3,300 ft	/
Current (Amps)	16.0	13.6	9.5	1.7	1.2	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	9.5	8.0	14.0	4.5	0.0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Torque Capability vs RPM



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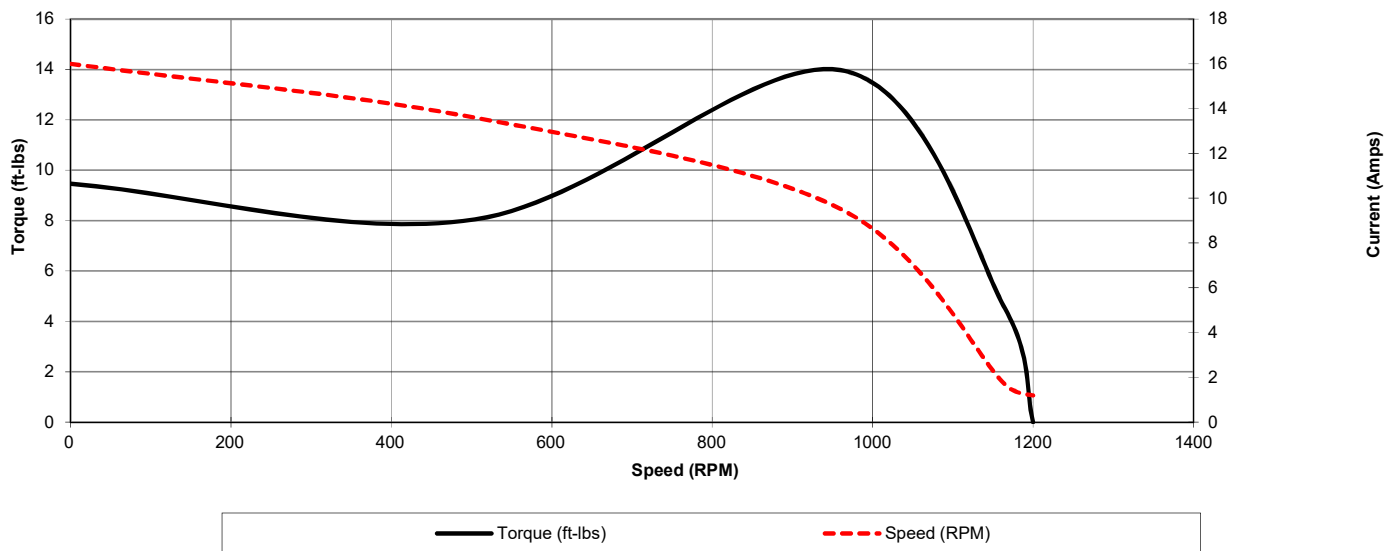
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HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
1	575	1165	TEFC	90S	60	B	6	K	F	60

Load %	0%	25%	50%	75%	100%	125%	150%
Amps	1.19	1.28	1.36	1.48	1.68	2.10	2.52
Torq ft/lbs	0	1.10	2.22	3.36	4.51	5.68	6.87
RPM	0	1191.25	1182.5	1173.75	1165	1156.25	1147.5
Eff	0	62.95	71.78	79.12	82.50	80.95	78.64
PF	0	23.2	39.3336	48.654	54.0	55.1	56.7

	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	504	960	1165	1200	Continuous	1.15	40°C	3,300 ft	/
Current (Amps)	16	13.6	9.5	1.68	1.1928	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	9.47	8.05	13.98	4.51	0.0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Load Data

