



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

Catalogue #: **MPSP-152TL**

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
1.5	1.12	575	1.15	84.0%	0.836	143TC	B	16

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
/	/	/	/	/	1.6	/	K	3480

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
39	3	Cont.	F	40°C	1000M (3300 Ft)	23

% Efficiency		% Power Factor		Torque			
Full Load:	84.0%	Full Load:	0.84	Full Load Ft/Lbs	2.3	Winding Resist. Ω	Safe Cold Start (Secs)
3/4 Load:	83.0%	3/4 Load:	0.81	Locked Rotor %	250		
1/2 Load:	78.0%	1/2 Load:	0.76	Break Down %	300	12	12

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
0.04	2.6	Stainless Steel				TEFC	IP69K	16AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6205	6205	Sealed Bearings	Rigid	Horizontal	-	76	85

Inverter Duty. Motor meets MG1 parts 31.4.4.2	Constant Torque Range	Variable Torque Range	Constant HP RPM
	10:1	20:1	5400

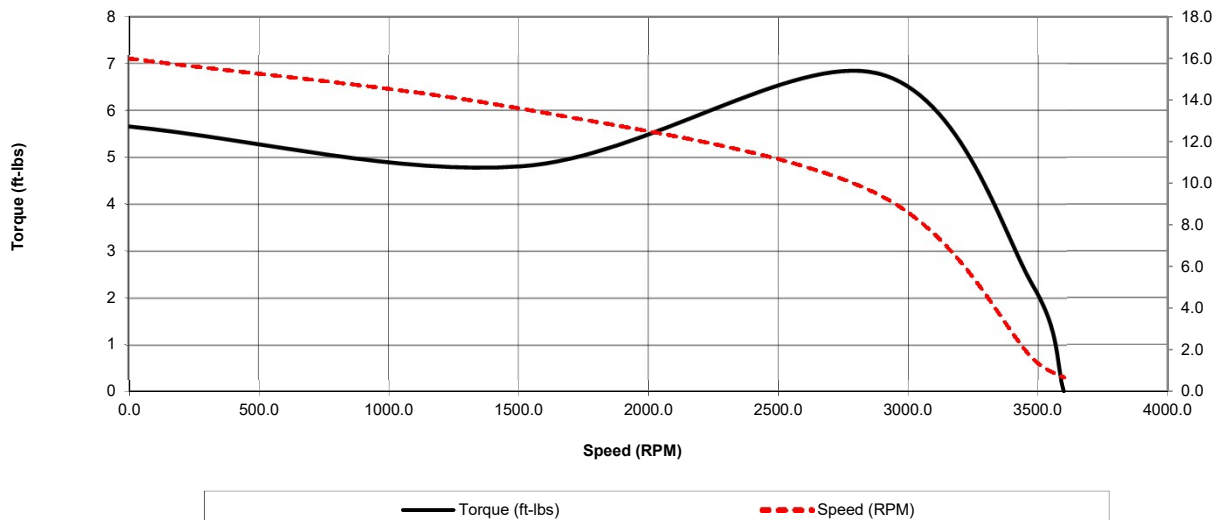
WIRING CONNECTION DIAGRAM : D
143T - 215T, Single Voltage, DOL, 3 Leads WYE Connection 575 VAC 3 phase 1 2 3 Line

Date: 2020-10-14
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

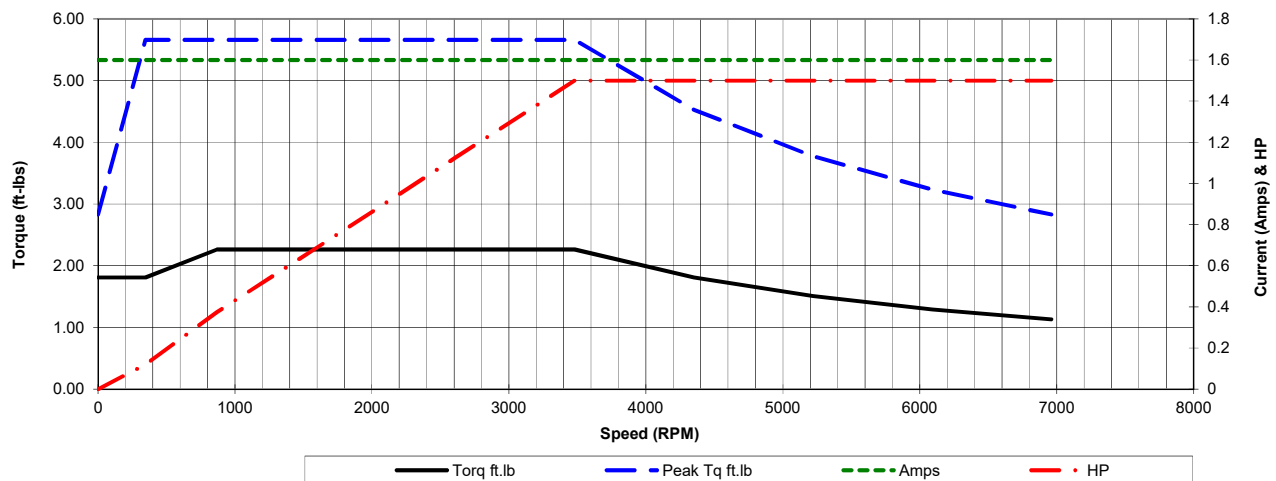
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NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
1.5	575	3480	TEFC	143TC	60	B	2	K	F	23
	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
RPM	0	348	870	1740	2610	3480	4350	5220	6090	6960
Torq ft.lb	1.81	1.81	2.26	2.26	2.26	2.26	1.81	1.51	1.29	1.13
Peak Tq ft.lb	2.83	5.66	5.66	5.66	5.66	5.66	4.53	3.77	3.23	2.83
HP	0	0.1	0.4	0.8	1.1	1.5	1.5	1.5	1.5	1.5
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0.0	1512	2880	3480	3600	Continuous	1.15	40°C	3,300 ft	76
Current (Amps)	16.0	13.6	9.5	1.6	0.7	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	5.7	4.8	6.8	2.3	0.0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Torque Capability vs RPM



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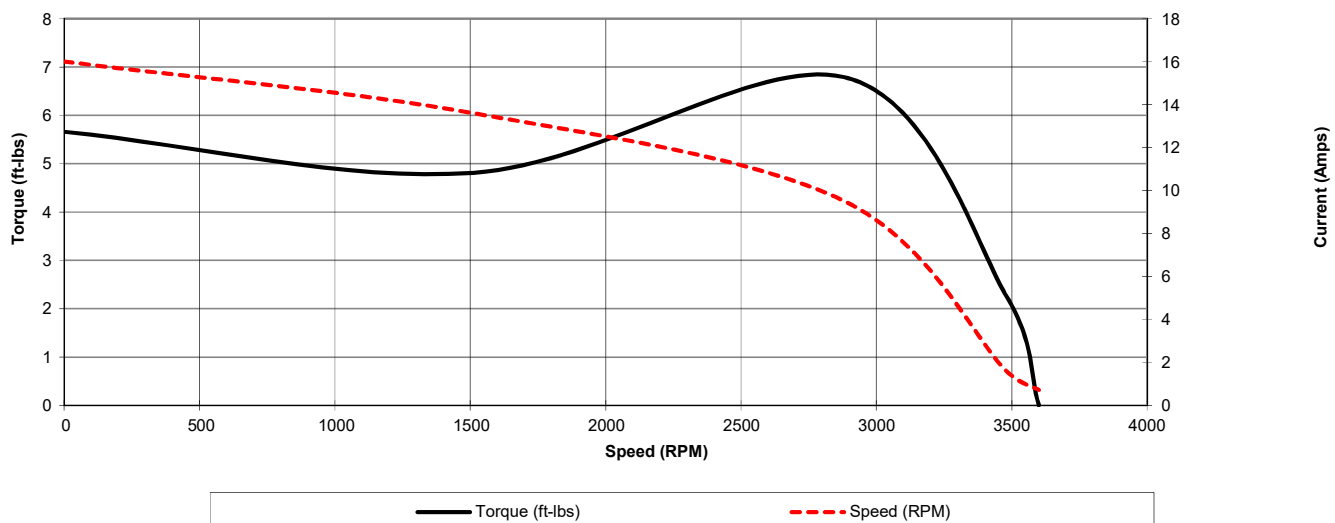
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HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
1.5	575	3480	TEFC	143TC	60	B	2	K	F	23

Load %	0%	25%	50%	75%	100%	125%	150%
Amps	0.72	0.75	0.98	1.26	1.60	1.96	2.34
Torq ft/lbs	0	0.55	1.11	1.68	2.26	2.85	3.46
RPM	0	3570	3540	3510	3480	3450	3420
Eff	0	62.56	78.00	83.00	84.00	84.00	84.00
PF	0	60.0	76	81	83.6	85.3	85.7

	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	1512	2880	3480	3600	Continuous	1.15	40°C	3,300 ft	76
Current (Amps)	16	13.6	9.5	1.6	0.72	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	5.66	4.81	6.79	2.26	0.0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Load Data

