PERFORMANCE DATA SHEET
NEMA PREMIUM NR CAN NEMA 12 - 12

Catalogue #: MQA-22

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
5	3,73	230/460	1,25	89,5%	0,78	184T	B	46

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
14	13,6	7	6,80	6,5	/	/	J	1755

50 Hz								
FLA			S.F. @ 50Hz		Efficiency	Power Factor	Code	F.L. RPM
190	380	415						
15,4	7,7	7,05	1,00		87,5%	0,84	H	1440

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
83	3	Cont.	F	40°C	1000M (3300 Ft)	42

% Efficiency		% Power Factor		Torque			
Full Load:	89,5%	Full Load:	0,78	Full Load Ft/Lbs	15,0	Winding Resist. Ω	Safe Cold Start (Secs)
3/4 Load:	88,8%	3/4 Load:	0,72	Locked Rotor %	240		
1/2 Load:	87,9%	1/2 Load:	0,59	Break Down %	290	2,55	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
0,24	40	Standard	Aluminum	Standard	Standard	TEFC	IP55	14 AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6306	6306	Sealed Bearings	Rigid	Horizontal	Aluminum	64	74

Inverter Duty. Motor meets MG1 parts 31.4.4.2	Constant Torque Range	Variable Torque Range	Constant HP RPM
	10:1	20:1	2700

WIRING CONNECTION DIAGRAM : A

143T - 184T, Dual Voltage, DOL, 9 Leads WYE Connection
230 / 460 VAC

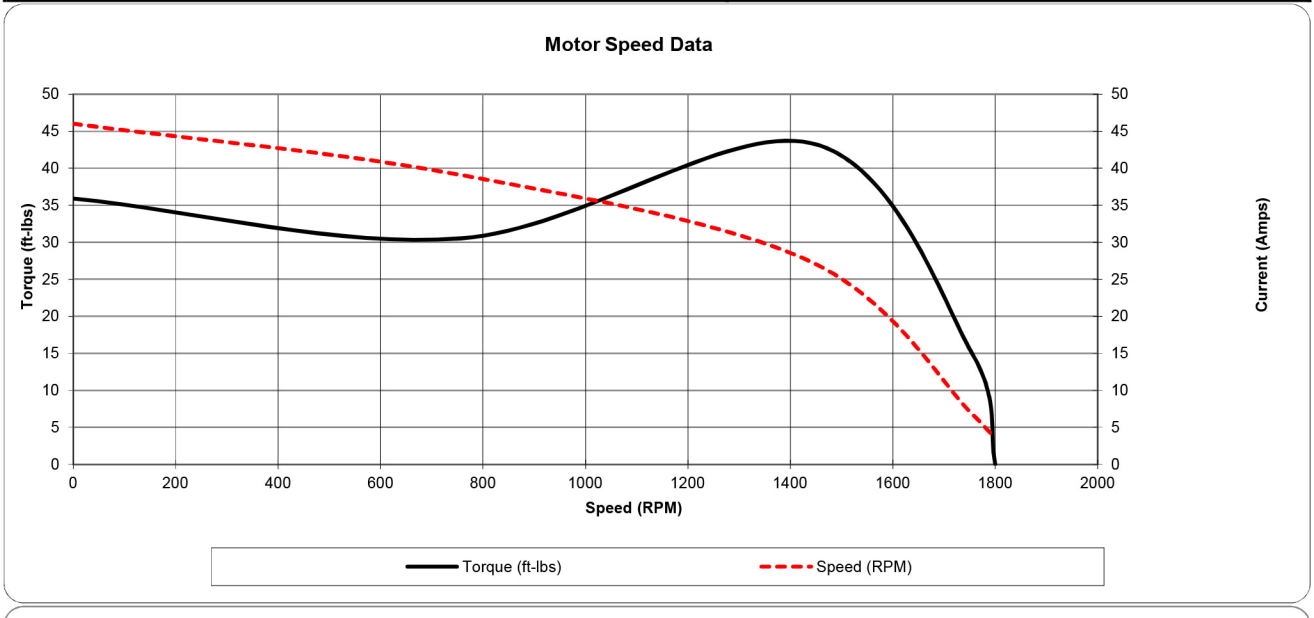
Date: 10/07/2018
Customer:
Contact:
Submittee: J.C. Lavallée

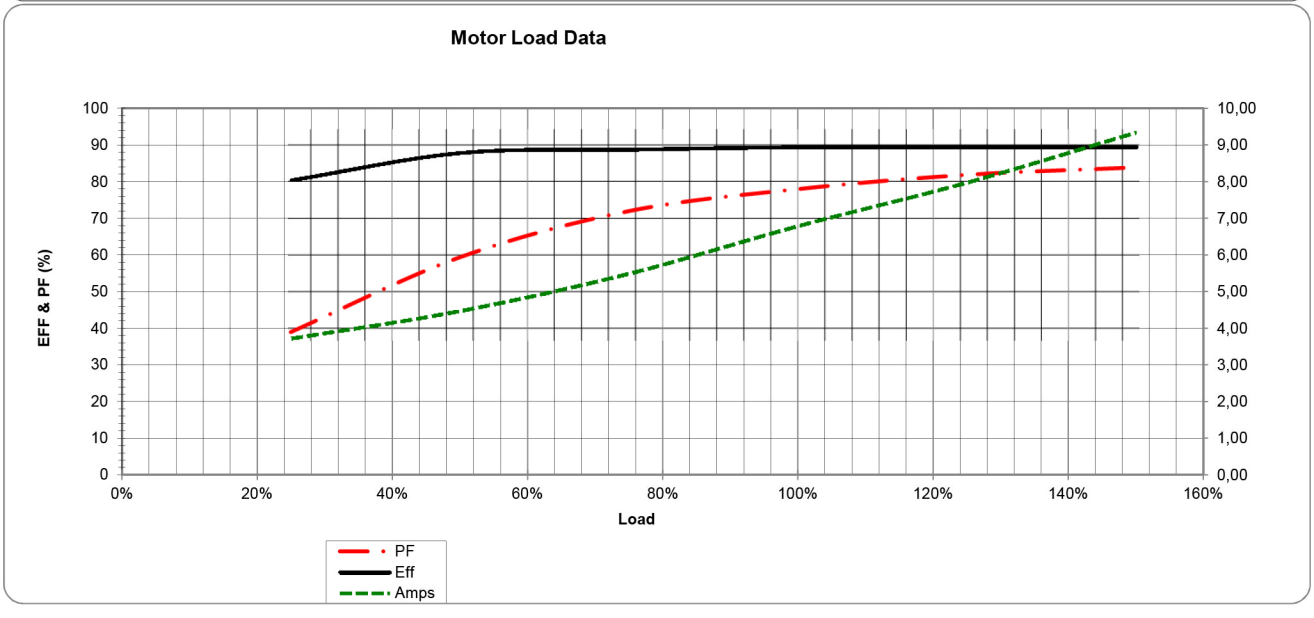
Catalogue #: MQA-22

NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
5	460	1755	TEFC	184T	60	B	4	J	F	42

Load %	0%	25%	50%	75%	100%	125%	150%
Amps	3,50	3,73	4,48	5,50	6,80	7,98	9,35
Torq ft/lbs	0	3,70	7,38	11,14	14,97	18,90	22,79
RPM	0	1788,75	1777,5	1766,25	1755	1743,75	1732,5
Eff	0	80,46	87,90	88,80	89,50	89,50	89,50
PF	0	39	59,4	72	78	81,9	83,9

	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	756	1440	1755	1800	Continuous	1,25	40°C	3,300 ft	64
Current (Amps)	46	39,1	27,4	6,8	3,5	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	35,91	30,52	43,39	14,96	0,0	C.T.	10:1	V.T.	20:1	





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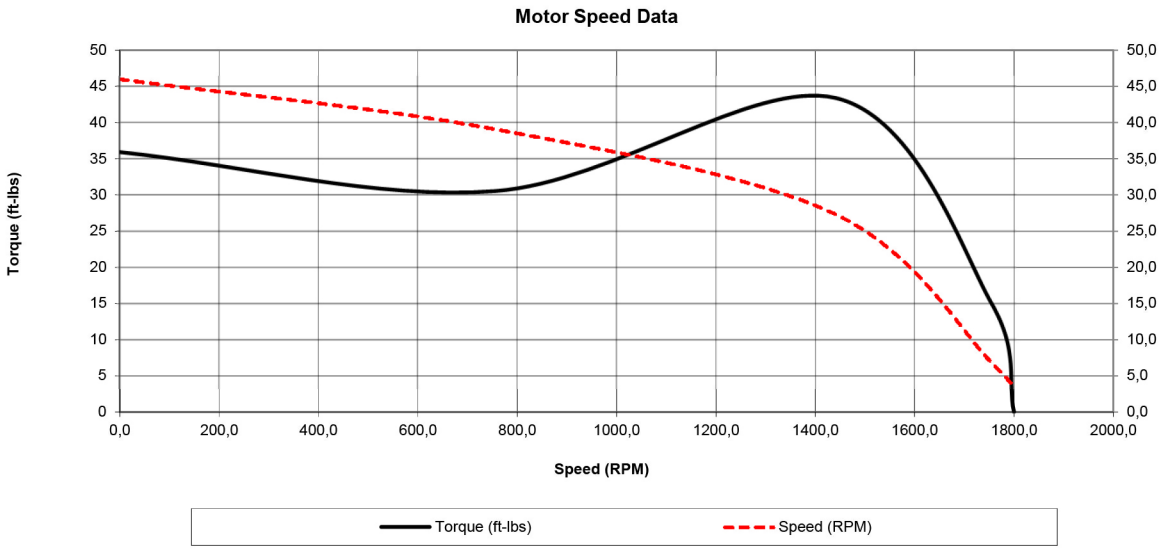
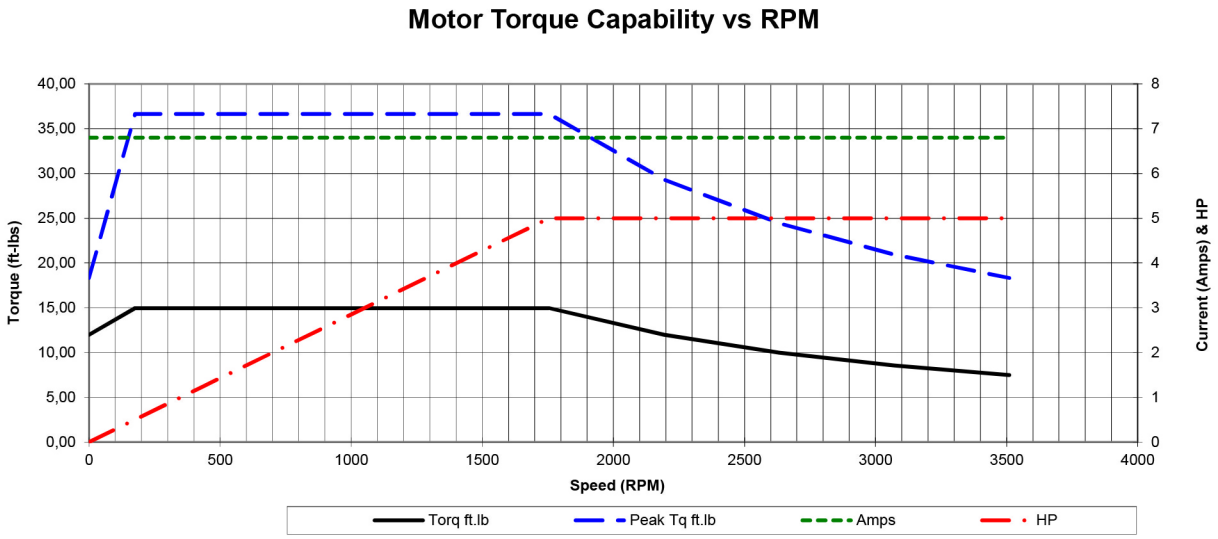
NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
5	460	1755	TEFC	184T	60	B	4	J	F	42

	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	6,8	6,8	6,8	6,8	6,8	6,8	6,8	6,8	6,8	6,8
RPM	0	175,5	438,75	877,5	1316,25	1755	2193,75	2632,5	3071,25	3510
Torq ft.lb	11,97	14,96	14,96	14,96	14,96	14,96	11,97	9,98	8,55	7,48
Peak Tq ft.lb	18,33	36,66	36,66	36,66	36,66	36,66	29,33	24,44	20,95	18,33
HP	0	0,5	1,3	2,5	3,8	5,0	5,0	5,0	5,0	5,0

143T - 184T 575V Single Voltage DOL 3 Leads WYE Connection
575 VAC 3 phase

Duty	S. F.	Ambient	Elevation	dBA @ 1M
Continuous	1,25	40°C	3,300 ft	64
VFD Rating: Meets MG1 parts 31.4.4.2				
C.T.	10:1	V.T.	20:1	

Speed
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