



PERFORMANCE DATA SHEET

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

Catalogue #: **MQS-100L2FC-S3**

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
4	2,98	230 / 460	1,15	88,5%	0,870	100L	B	36

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
/	9,7	/	4,85	/	/	/	J	3515

50 Hz								
FLA			S.F. @ 50Hz		Efficiency	Power Factor	Code	F.L. RPM
190	380	415						
11,8	5,88	/	1,00		87,1%	0,89	L	2910

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
81,4	3	Cont.	F	40°C	1000M (3300 Ft)	56

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	88,5%	Full Load:	0,87	Full Load Ft/Lbs	6,0		
3/4 Load:	88,8%	3/4 Load:	0,84	Locked Rotor %	185		
1/2 Load:	86,2%	1/2 Load:	0,74	Break Down %	270	/	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
/	/	Stainless Steel 304				TEFC	IP66	/

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6206	6206	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	4

WIRING CONNECTION DIAGRAM :	B	Nema C (IEC L) Dimension (mm)	435 mm																				
<p>90 - 132, Dual Voltage, 12 Leads Connection 230 / 460 VAC 3 phase</p> <p>Low Voltage High Voltage</p> <table> <tr> <td>WYE Start</td><td>DELTA Run</td><td>WYE Start</td><td>DELTA Run</td></tr> <tr> <td>10-11-12</td><td>5-4-6</td><td>10-11-12</td><td>6-5-4</td></tr> <tr> <td>4-5-6</td><td>9-8-7</td><td>4-5-6</td><td>9-8-7</td></tr> <tr> <td>7-8-9</td><td>11-10-12</td><td>7-8-9</td><td>11-10-12</td></tr> <tr> <td>1-2-3</td><td>3-2-1</td><td>1-2-3</td><td>3-2-1</td></tr> </table> <p>Line Line Line Line</p>				WYE Start	DELTA Run	WYE Start	DELTA Run	10-11-12	5-4-6	10-11-12	6-5-4	4-5-6	9-8-7	4-5-6	9-8-7	7-8-9	11-10-12	7-8-9	11-10-12	1-2-3	3-2-1	1-2-3	3-2-1
WYE Start	DELTA Run	WYE Start	DELTA Run																				
10-11-12	5-4-6	10-11-12	6-5-4																				
4-5-6	9-8-7	4-5-6	9-8-7																				
7-8-9	11-10-12	7-8-9	11-10-12																				
1-2-3	3-2-1	1-2-3	3-2-1																				

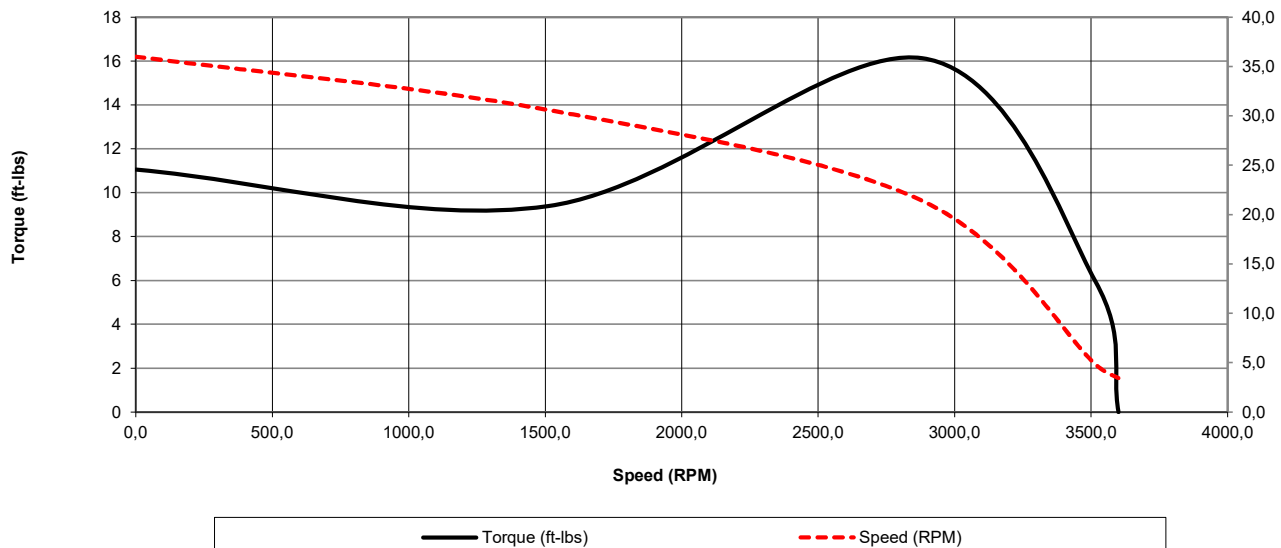
Date: 2023-12-21
 Customer:
 Contact:
 Submittee: J.C. Lavallée

Catalogue #: MQS-100L2FC-S3

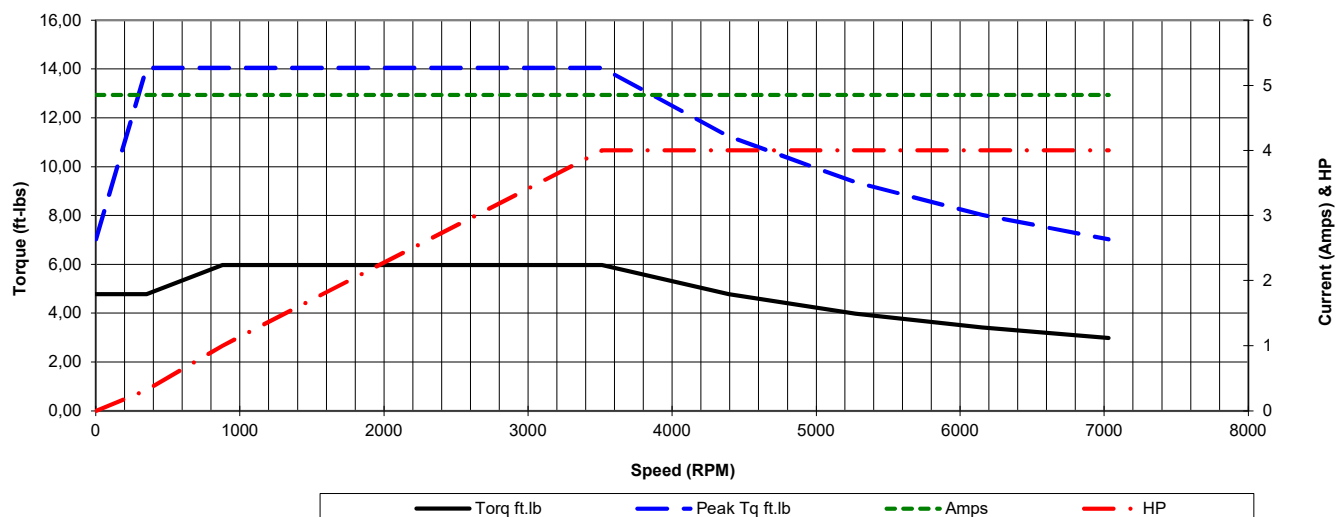
Meets or exceeds MEPS, as described by the US DOE in docket 10CFR431 and NRCan's Amendment 14

HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
4	460	3515	TEFC	100L	60	B	2	J	F	56
	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	4,85	4,85	4,85	4,85	4,85	4,85	4,85	4,85	4,85	4,85
RPM	0	351,5	878,75	1757,5	2636,25	3515	4393,75	5272,5	6151,25	7030
Torq ft.lb	4,78	4,78	5,98	5,98	5,98	5,98	4,78	3,98	3,42	2,99
Peak Tq ft.lb	7,02	14,05	14,05	14,05	14,05	14,05	11,24	9,36	8,03	7,02
HP	0	0,3	1,0	2,0	3,0	4,0	4,0	4,0	4,0	4,0
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBa @ 1M
Speed (RPM)	0,0	1512	2880	3515	3600	Cont.	1,15	40°C	3,300 ft	/
Current (Amps)	36,0	30,6	21,4	4,9	3,4	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	11,1	9,4	16,1	6,0	0,0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Torque Capability vs RPM



Date: 2023-12-21
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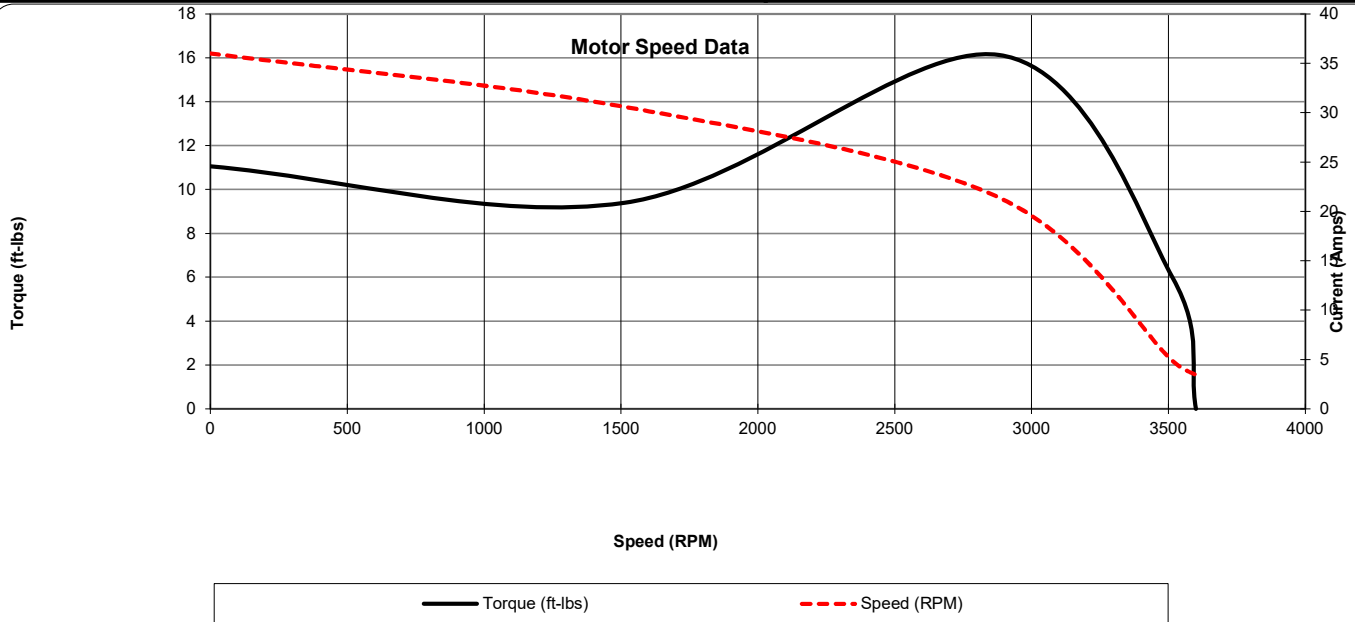
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HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
4	460	3515	TEFC	100L	60	B	2	J	F	56

Load %	0%	25%	50%	75%	100%	125%	150%
Amps	3,44	3,69	3,93	4,27	4,85	6,06	7,28
Torq ft/lbs	0	1,47	2,95	4,46	5,98	7,52	9,07
RPM	0	3578,75	3557,5	3536,25	3515	3493,75	3472,5
Eff	0	75,60	86,20	88,82	88,50	87,02	84,54
PF	0	52,2	73,7586	83,694	87,0	88,7	91,4

	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	1512	2880	3515	3600	Cont.	1,15	40°C	3,300 ft	/
Current (Amps)	36	30,6	21,4	4,85	3,4435	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	11,06	9,40	16,14	5,98	0,0	C.T.	10:1	V.T.	20:1	



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

Motor Load Data

