MaxMotion

PERFORMANCE DATA SHEET

Meets or exceeds MEPS (Minimum Efficiency Performance Standards), as described by the US Department of Energy in docket 10CFR431 and Natural Resources Canada's Amendment 14

Catalogue #: MQR-122CH

HP	kW	Voltage	S.F. @ 60Hz	Efficiency	Power Factor	Frame	Design	L.R. Amps
0,5	0,37	230 / 460	1,15	71,6%	0,790	56HC	B	6

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
/	1,67	/	0,84	/	/	/	L	3466

50 Hz								
HP	kW	FLA		S.F. @ 50Hz	Efficiency	Power Factor	Code	F.L. RPM
		190	380					
0,33	0,24618	1,8	0,9	1,15	66,0%	0,63	L	2880

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
21	3	Cont.	F	40°C	1000M (3300 Ft)	36

% Efficiency		% Power Factor		Torque			
Full Load:	71,6%	Full Load:	0,79	Full Load Ft/Lbs	0,8	Winding Resist. Ω	Safe Cold Start (Secs)
3/4 Load:	68,6%	3/4 Load:	0,73	Locked Rotor %	477		
1/2 Load:	60,1%	1/2 Load:	0,63	Break Down %	491	9,2 / 36,7	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
/	/	Steel	Rolled Steel	Aluminium Alloy		TEFC	IP55	16AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6205	6203	Sealed Bearings	Rigid	Horizontal	Grey	54	/

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 : A

56 - 56C, Dual Voltage, DOL, 9 Leads WYE Connection
230 / 460 VAC

Date: 2024-05-01
Customer:
Contact:
Submittee: J.C. Lavallée

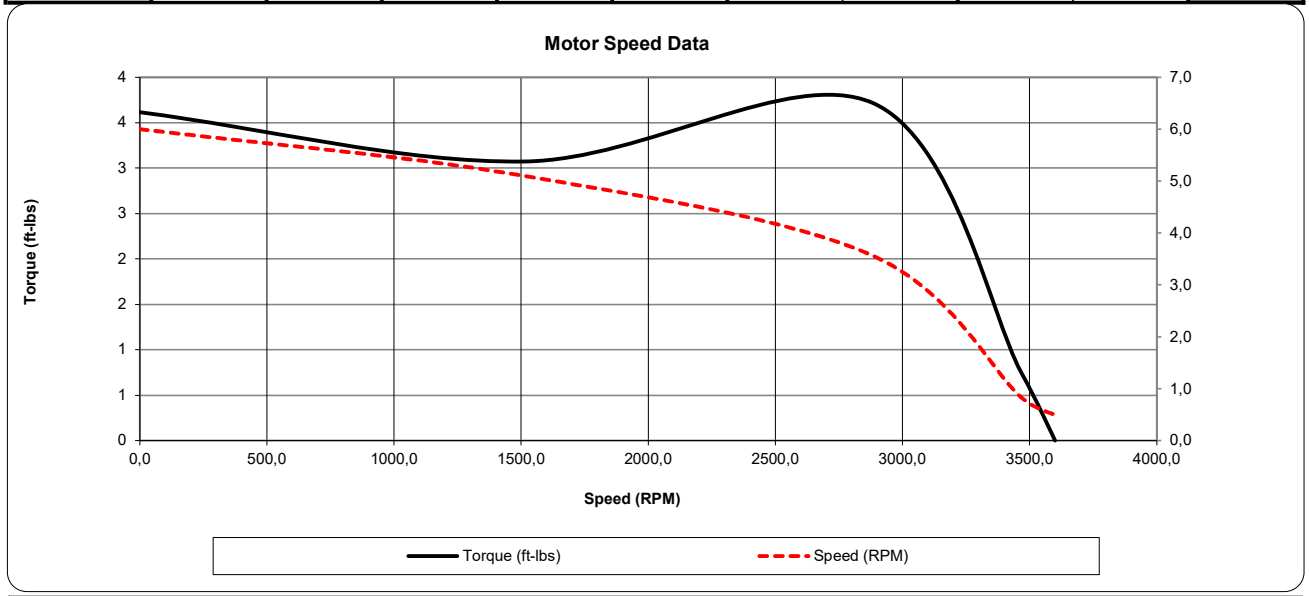
Catalogue #: MQR-122CH

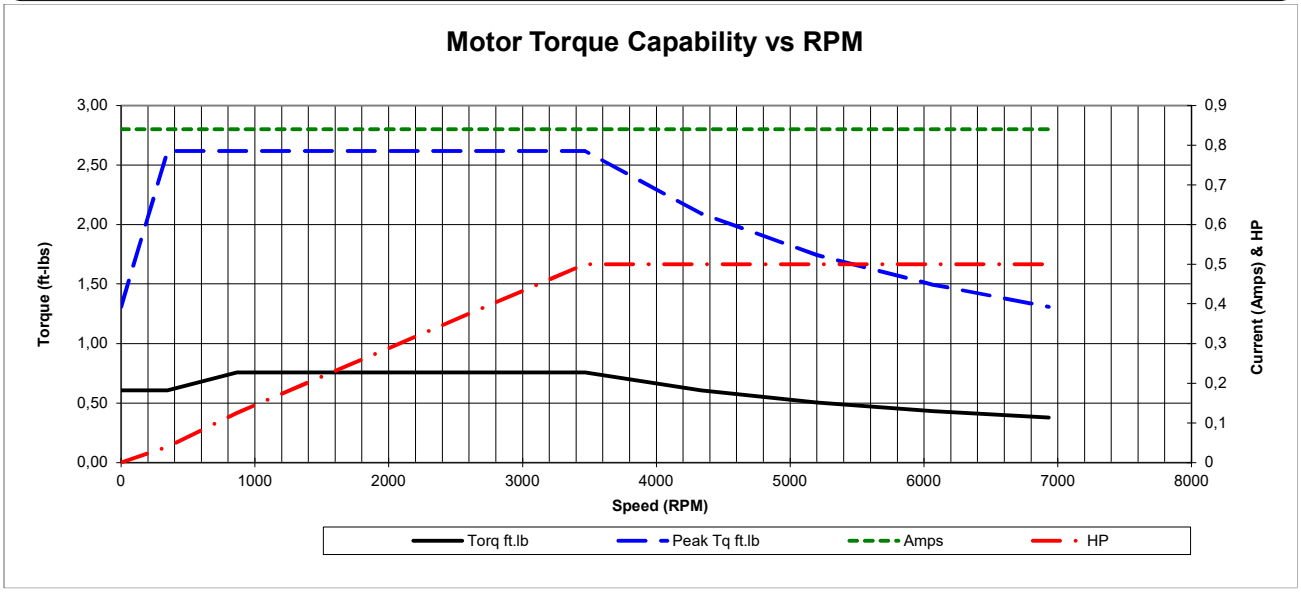
Meets or exceeds MEPS (Minimum Efficiency Performance Standards), as described by the US Department of Energy in docket 10CFR431 and Natural Resources Canada's Amendment 14

HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
0,5	460	3466	TEFC	56HC	60	B	2	L	F	36

	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	0,84	0,84	0,84	0,84	0,84	0,84	0,84	0,84	0,84	0,84
RPM	0	346,6	866,5	1733	2599,5	3466	4332,5	5199	6065,5	6932
Torq ft.lb	0,61	0,61	0,76	0,76	0,76	0,76	0,61	0,51	0,43	0,38
Peak Tq ft.lb	1,31	2,62	2,62	2,62	2,62	2,62	2,09	1,75	1,50	1,31
HP	0	0,0	0,1	0,3	0,4	0,5	0,5	0,5	0,5	0,5

	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0,0	1512	2880	3466	3600	Continuous	1,15	40°C	3,300 ft	54
Current (Amps)	6,0	5,1	3,6	0,8	0,5	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	3,6	3,1	3,7	0,8	0,0	C.T.	10:1	V.T.	20:1	



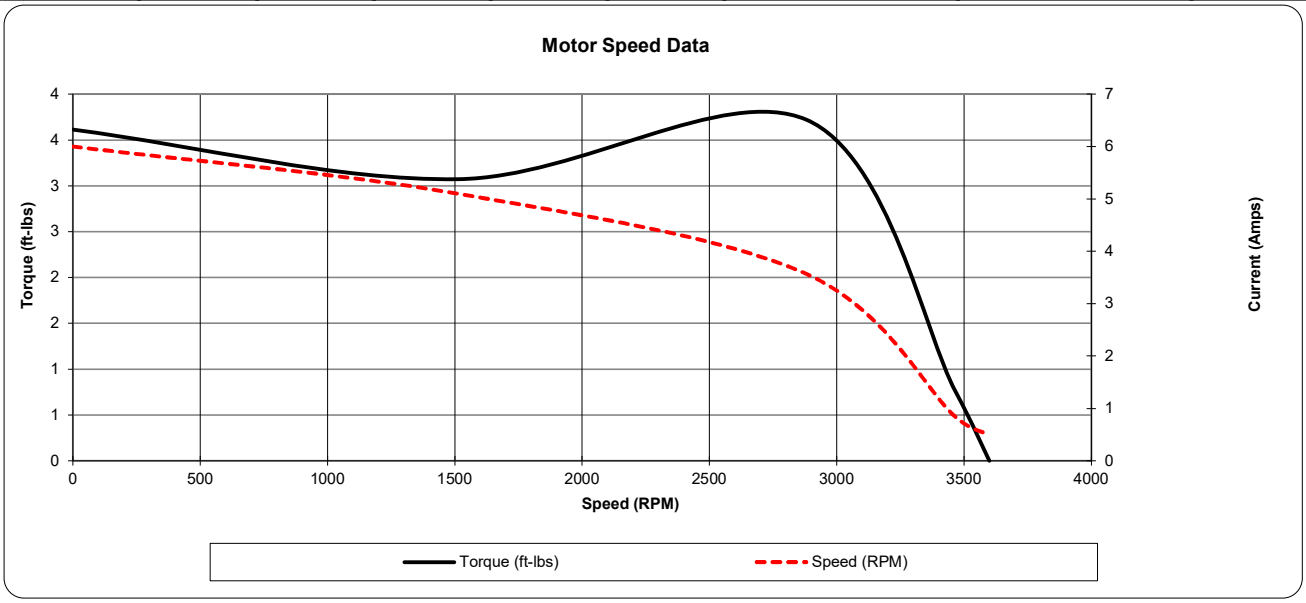
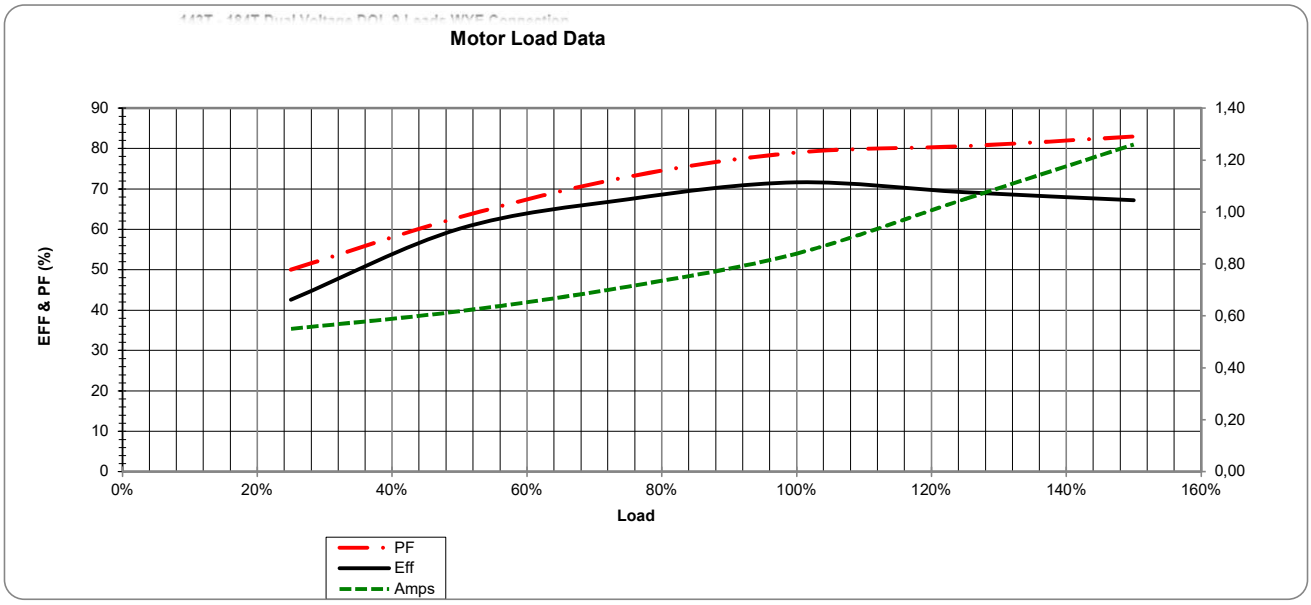


Date: 2024-05-01
Customer:
Contact:
Submittee: J.C. Lavallée

Catalogue #: MQR-122CH

Meets or exceeds MEPS (Minimum Efficiency Performance Standards), as described by the US Department of Energy in docket 10CFR431 and Natural Resources Canada's Amendment 14

HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
0,5	460	3466	TEFC	56HC	60	B	2	L	F	36

Load %	0%	25%	50%	75%	100%	125%	150%
Amps	0,50	0,55	0,62	0,71	0,84	1,05	1,26
Torq ft/lbs	0	0,18	0,37	0,56	0,76	0,96	1,16
RPM	0	3566,5	3533	3499,5	3466	3432,5	3399
Eff	0	42,56	60,12	67,46	71,60	69,17	67,19
PF	0	50,0	63	73	79,0	80,6	83,0

	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	1512	2880	3466	3600	Continuous	1,15	40°C	3,300 ft	54
Current (Amps)	6	5,1	3,6	0,84	0,495	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	3,61	3,07	3,72	0,76	0,0	C.T.	10:1	V.T.	20:1