

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 #: MPR-122CH

HP	kW	Voltage	S.F. @ 60Hz	Efficiency	Power Factor	Frame	Design	L.R. Amps
0,5	0,37	575	1,15	69,3%	0,820	56HC	В	5

	60 Hz										
		Code	F.L. RPM								
208	230	416	460	480	575	600	Code				
1	1	Ι	1	1	0,672	1	L	3471			

	50 Hz											
НР	kW	FL	S.F. @ 50Hz		Efficiency	Power	Code	F.L. RPM				
пе	NVV	190	380	3.F. @ 30HZ	Enciency	Factor	Code					
1	1 - 1		1	1	1	1	1	1				

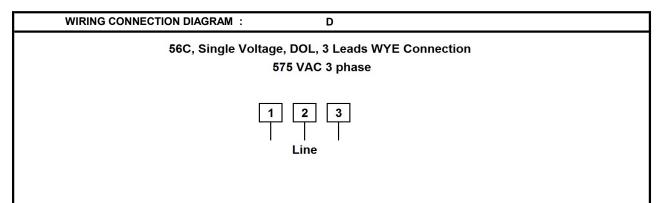
Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C	
21	3	Cont.	F	40°C	1000M (3300 Ft)	40	

% Efficiency		% Power Factor		Torque			
Full Load:	oad: 69,3% Full Load: 0,82		Full Load Ft/Lbs	0,8	Winding	Safe Cold	
3/4 Load:	64,4%	3/4 Load:	0,76	Locked Rotor %	305	Resist. Ω	Start (Secs)
1/2 Load:	57,8%	1/2 Load:	0,66	Break Down %	348	59,3	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
1	1	Steel	Rolled Steel	Alumini	um Alloy	TEFC	IP55	16AWG

Ball Be	earings	Grease	Mount Type	Orientation	Paint	Sound Pressure	Sound Power	
DE	ODE	Glease	would type	Onentation	Faint	@ 3FT		
6205	6203	Sealed Bearings	Rigid	Horizontal	Grey	55	1	

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



Max Motion

Date: 2024-05-01 Customer: Contact: Catalogue #: J.C. Lavallée Submittee: 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 LR Code ΗP VAC RPM Frequency Enclosure Frame Design Poles Letter 0,5 575 3471 TEFC 56HC 60 В 2 L 0Hz 6Hz 15Hz 30Hz 45Hz 60Hz 75Hz 90Hz Amps 0,672 0,672 0,672 0,672 0,672 0,672 0,672 0,672 RPM 0 347,1 867,75 1735,5 2603,25 3471 4338,75 5206,5 Torq ft.lb 0,61 0,61 0,76 0,76 0,76 0,76 0,61 0,50 Peak Tq ft.lb 1,04 2,07 2,07 2,07 2,07 2,07 1,66 1,38 0 0,0 0,1 0,3 0,4 0,5 0,5 ΗP 0,5 Locked Rotor Pull-Up Breakdown **Rated Load** Idle Duty S. F. Ambient Speed (RPM) 0,0 1512 2880 3471 3600 Continuous 1,15 40°C VFD Ratin ets MG1 parts 31.4.4.2 Current (Amps) 5,0 4,3 3,0 0,7 0,4 z: M Torque (ft-lbs) 2,3 2,0 2,6 0,8 0,0 C.T. 10:1 V.T. Motor Speed Data 3 3 2 Torque (ft-lbs) 2 1 1

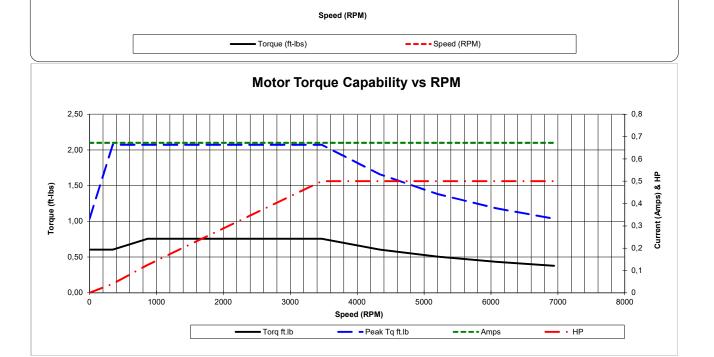
1500.0

0

0,0

500.0

1000.0



2000,0

2500.0

3000.0

3500,0

MPR-122CH

Insulation

Class

F

105Hz

0,672

6074,25

0,43

1,18

0,5

Elevation

3,300 ft

20:1

6.0

5,0

4,0

3,0

2,0

1,0

0,0 4000,0

Temp. Rise

°C

40

120Hz

0,672

6942

0,38

1,04

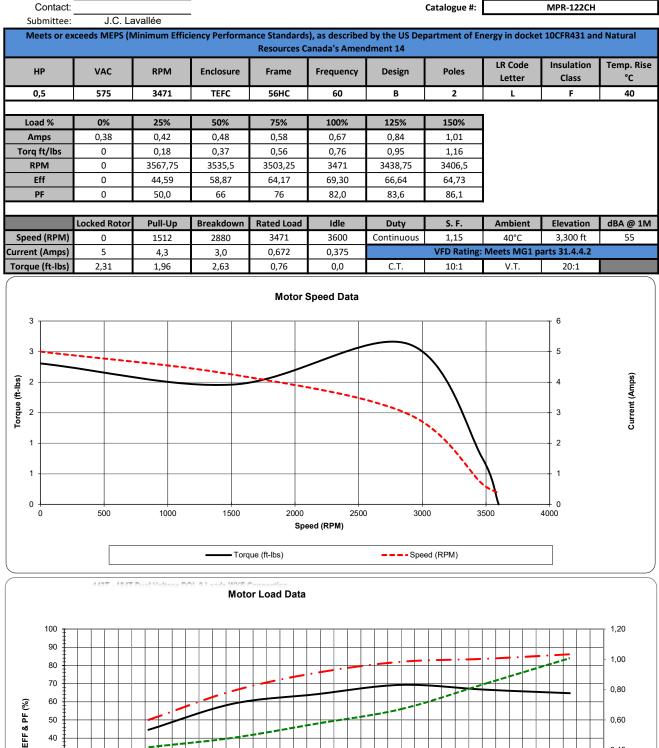
0,5

dBA @ 1M

55

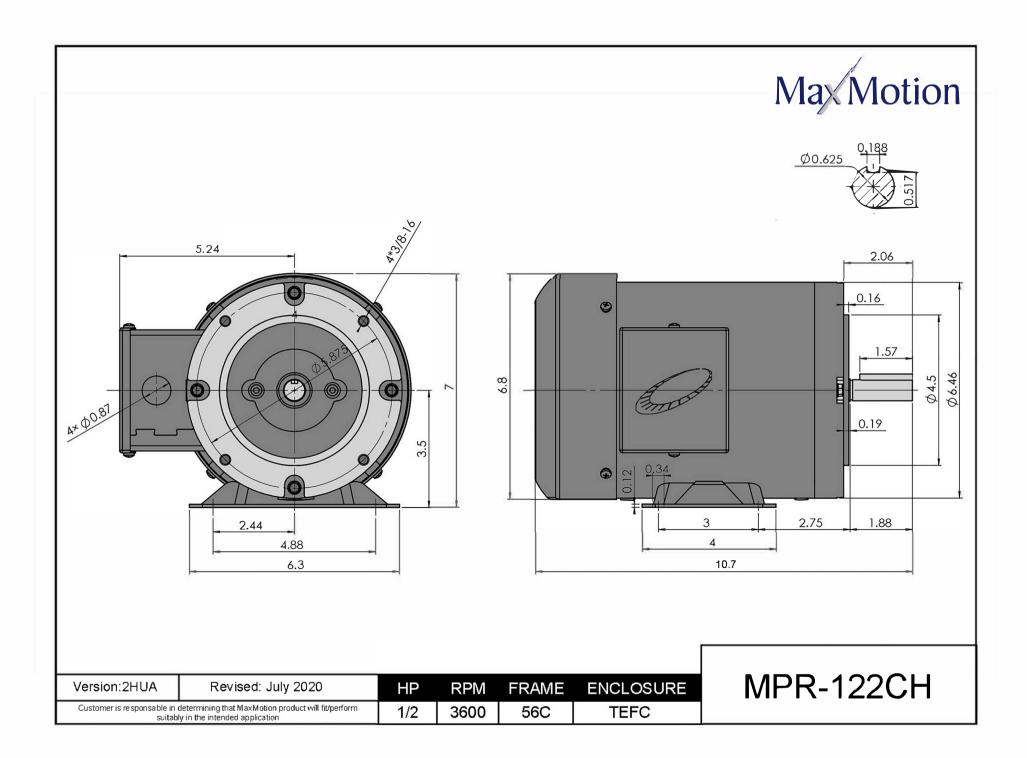


Date: 2024-05-01 Customer:



0,40 30 20 0,20 10 0 0.00 0% 20% 40% 60% 80% 100% 120% 140% 160% Load PF • Eff

---· Amps



THREE PHASE 56HC AC MOTORS

HEAVY GAUGE ROLLED STEEL CONSTRUCTION TEFC TOTALLY ENCLOSED FAN COOLED



Applications:

A versatile design allowing replacement of C-Face or rigid base TEFC motors, for use on gear reducers, pumps, fans, blowers, conveyors, and all agricultural equipment requiring a motor to meet demanding high starting torque applications in severe environmental conditions.

Features:

Design - NEMA Standard MG-1, design B, ambient temperature of 40°C, altitude 1000M, temperature rise B.

Agency Listings and Standard - NEMA MG1, IEEE, IEC, DOE registered, NRCan, CSAus and CSA Certified, CE and RoHS Compliant

Service Factor - 1.15

Electrical Supply - 3 phase, 230/460VAC, 575VAC @ 60 hz, 3 phase 190/380VAC @ 50 Hz rated to the next lower HP. (± 10% Voltage tolerance)

Windings - Highest quality Corona resistant, Inverter duty copper wire. VPI impregnated with additional dip and bake.

Efficiency - Integral HP models meet or exceed NEMA Premium efficiency levels.

Insulation - Class F insulation, with non-hydroscopic motor leads.

Bearings - Permanently Lubricated High quality Double Shielded Ball Bearings with oversized DE bearings. Lithium based grease operating temperature range – 25° through 175°C.

Enclosure Protection -Totally Enclosed Fan Cooled meeting IEC standard IP55. Factory Certified Division 2 Class I Groups A, B, C, D Class II Groups F, G. Meets Temp Code T2B.

Frame Construction - Rolled Steel with cast aluminum end shields.

Conduit Box - With ½ NPT knockouts positioned for wiring access every 90° with rubber gasket between box and motor frame.

Inverter Duty - Constant torque: 10/1 ratio, variable torque: 20/1 ratio

Nameplate - Stainless steel with etched details.

Drain Hole - Positioned in the stator frame at the lowest point, when motors a horizontally mounted.

Fan cover - Plastic fan & heavy duty plastic fan guard

Warranty - 1 year





THREE PHASE 56HC AC MOTORS

HEAVY GAUGE ROLLED STEEL CONSTRUCTION

TEFC TOTALLY ENCLOSED FAN COOLED



НР	FL RPM	VOLTS	FRAME	CAT NO.	CONSTRUCTION	NOM EFF.	F.L. AMPS	CODE	WT (Lbs)	DE BRG	ODE BRG	"C" Dimension (Inch)
	3481	208-230/460	56C	MQR-132CH	Rolled Steel	67.6	1.28-1.31/0.66	L	21	6205	6203	10.7
0.33	3470	575	56C	MPR-132CH	Rolled Steel	62.8	0.57	L	21	6205	6203	10.7
0.33	1744	208-230/460	56C	MQR-134CH	Rolled Steel	66.1	1.53-1.63/0.82	L	22	6205	6203	10.7
	1750	575	56C	MPR-134CH	Rolled Steel	69.2	0.58	L	22	6205	6203	10.7
	3466	208-230/460	56C	MQR-122CH	Rolled Steel	71.6	1.74-1.67/0.84	L	21	6205	6203	10.7
0.50	3471	575	56C	MPR-122CH	Rolled Steel	69.3	0.672	L	21	6205	6203	10.7
0.50	1741	208-230/460	56C	MQR-124CH	Rolled Steel	74.1	1.9-1.95/0.98	L	24	6205	6203	10.7
	1753	575	56C	MPR-124CH	Rolled Steel	77.1	0.71	L	24	6203	6203	10.7
	3469	208-230/460	56C	MQR-342CH	Rolled Steel	80.3	2.24-2.08/1.04	L	22.5	6205	6203	10.7
0.75	3474	575	56C	MPR-342CH	Rolled Steel	76.2	0.86	L	22.5	6205	6203	10.7
0.75	1738	208-230/460	56C	MQR-344CH	Rolled Steel	80.7	2.43-2.34/1.18	L	25.3	6205	6203	10.7
	1744	575	56C	MPR-344CH	Rolled Steel	80.5	0.91	L	25.3	6205	6203	10.7
	3506	208-230/460	56C	MQRP-102CH	Rolled Steel	82.7	2.92-2.75/1.38	L	25	6205	6203	10.7
	3510	575	56C	MPRP-102CH	Rolled Steel	80.7	1.14	L	25	6205	6203	10.7
	1752	208-230/460	56C	MQRP-104CH	Rolled Steel	86.5	3.01-2.82/1.41	L	27	6205	6203	10.7
	1756	575	56C	MPRP-104CH	Rolled Steel	85.6	1.14	L	27	6205	6203	10.7
	3492	208-230/460	56C	MQRP-152CH	Rolled Steel	86.6	4.03-3.81/1.9	L	28	6205	6203	10.7
1.5	3478	575	56C	MPRP-152CH	Rolled Steel	85.1	1.61	L	28	6205	6203	10.7
	1752	208-230/460	56C	MQRP-154CH	Rolled Steel	86.6	4.59-4.41/2.21	L	31	6205	6203	11.5
	1745	575	56C	MPRP-154CH	Rolled Steel	86.7	1.65	L	31	6205	6203	11.5
	3500	208-230/460	56C	MQRP-202CH	Rolled Steel	85.5	5.39-5.05/2.53	L	32	6205	6203	11.5
	3502	575	56C	MPRP-202CH	Rolled Steel	86	2.03	L	32	6205	6203	11.5
	1741	208-230/460	56HC	MQRP-204CH	Rolled Steel	87.1	6.0-5.43/2.74	L	37	6205	6203	12.5
	1752	575	56HC	MPRP-204CH	Rolled Steel	87.6	2.15	L	37	6205	6203	12.5
3	3513	208-230/460	56HC	MQRP-302CH	Rolled Steel	87.6	7.81-7.18/3.54	L	42	6205	6203	12.5
	3512	575	56HC	MPRP-302CH	Rolled Steel	87.6	3.05	L	42	6205	6203	12.5



