

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-124CH

НР	kW	Voltage	S.F. @ 60Hz	Efficiency	Power Factor	Frame	Design	L.R. Amps
0,5	0,37	575	1,15	77,1%	0,690	56HC	В	8

60 Hz									
	FLA								
208	230	416	460	480	575	600	Code	F.L. RPM	
1	1	1	1	1	0,71	1	L	1753	

50 Hz										
HP kW		FL	_A	S.F. @ 50Hz	Efficiency	Power	Code	F.L. RPM		
111	190		380	3.1 . @ 30112	Linciency	Factor	Code	I .L. KFW		
1	-	1	1	1	1	1	1	1		

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
24	3	Cont.	F	40°C	1000M (3300 Ft)	30

% Effic	ciency	% Powe	% Power Factor Torque				
Full Load:	77,1%	Full Load:	0,69	Full Load Ft/Lbs	1,5	Winding	Safe Cold
3/4 Load:	73,9%	3/4 Load:	0,55	Locked Rotor %	236	Resist. Ω	Start (Secs)
1/2 Load:	68,5%	1/2 Load:	0,47	Break Down %	318	72,8	12

R	otor 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	Grease	Would Type	Orientation	railit	@ 3FT	Sound Fower	
6205	6203	Sealed Bearings	Rigid	Horizontal	Grey	54	1	

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

WIRING CONNECTION DIAGRAM:

56C, Single Voltage, DOL, 3 Leads WYE Connection

575 VAC 3 phase

1 2 3

Line

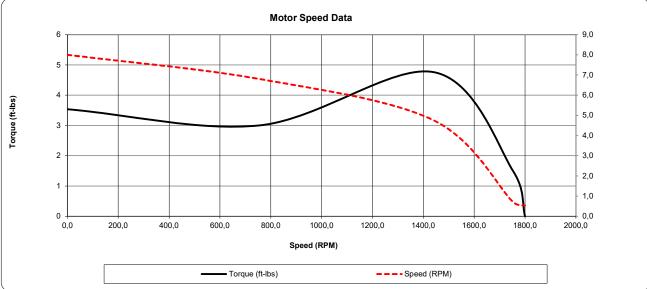


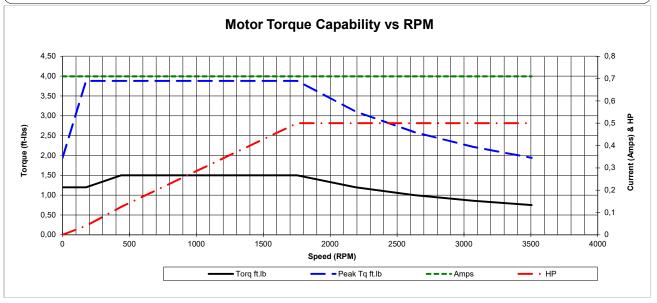
Date: 2024-05-01

Customer: Contact:

Catalogue #: MPR-124CH

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J.C. La	ıvallée	•				•			
ceeds MEPS (M	inimum Effici	ency Performa	nce Standards	, as described	by the US Dep	artment of En	ergy in docke	t 10CFR431 and	d Natural
			Resources Ca	ınada's Amend	dment 14				
VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
575	1753	TEFC	56HC	60	В	4	L	F	30
0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
0,71	0,71	0,71	0,71	0,71	0,71	0,71	0,71	0,71	0,71
0	175,3	438,25	876,5	1314,75	1753	2191,25	2629,5	3067,75	3506
1,20	1,20	1,50	1,50	1,50	1,50	1,20	1,00	0,86	0,75
1,94	3,88	3,88	3,88	3,88	3,88	3,10	2,59	2,22	1,94
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
0,0	756	1440	1753	1800	Continuous	1,15	40°C	3,300 ft	54
8,0	6,8	4,8	0,7	0,5	VFD Rating: Meets MG1 parts 31.4.4.2				
3,5	3,0	4,8	1,5	0,0	C.T.	10:1	V.T.	20:1	
	VAC 575 OHz 0,71 0 1,20 1,94 0 Locked Rotor 0,0 8,0	VAC RPM 575 1753 0Hz 6Hz 0,71 0,71 0 175,3 1,20 1,20 1,94 3,88 0 0,0 Locked Rotor Pull-Up 0,0 756 8,0 6,8	VAC RPM Enclosure 575 1753 TEFC OHz 6Hz 15Hz 0,71 0,71 0,71 0 175,3 438,25 1,20 1,20 1,50 1,94 3,88 3,88 0 0,0 0,1 Locked Rotor Pull-Up Breakdown 0,0 756 1440 8,0 6,8 4,8	Ceeds MEPS (Minimum Efficiency Performance Standards Resources Called Res	Ceeds MEPS (Minimum Efficiency Performance Standards), as described Resources Canada's Amend VAC RPM Enclosure Frame Frequency 575 1753 TEFC 56HC 60 OHZ 45HZ 0,71 0,71 0,71 0,71 0,71 0 175,3 438,25 876,5 1314,75 1,20 1,20 1,50 1,50 1,50 1,94 3,88 3,88 3,88 3,88 0 0,0 0,1 0,3 0,4 Locked Rotor Pull-Up Breakdown Rated Load Idle 0,0 756 1440 1753 1800 8,0 6,8 4,8 0,7 0,5	Ceeds MEPS (Minimum Efficiency Performance Standards), as described by the US Degree Resources Canada's Amendment 14 VAC RPM Enclosure Frame Frequency Design 575 1753 TEFC 56HC 60 B OHZ 6HZ 15HZ 30HZ 45HZ 60HZ 0,71 0,71 0,71 0,71 0,71 0,71 0 175,3 438,25 876,5 1314,75 1753 1,20 1,20 1,50 1,50 1,50 1,50 1,94 3,88 3,88 3,88 3,88 3,88 0 0,0 0,1 0,3 0,4 0,5 Locked Rotor Pull-Up Breakdown Rated Load Idle Duty 0,0 756 1440 1753 1800 Continuous 8,0 6,8 4,8 0,7 0,5	J.C. Lavallée	J.C. Lavallée	J.C. Lavallée







Date:	2024-05-01	
Customer:		
044		

Submittee: J.C. Lavallée

575

0,5

1753

Catalogue #:

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MPR-124CH

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Meets or ex	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											
НР	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C		

60

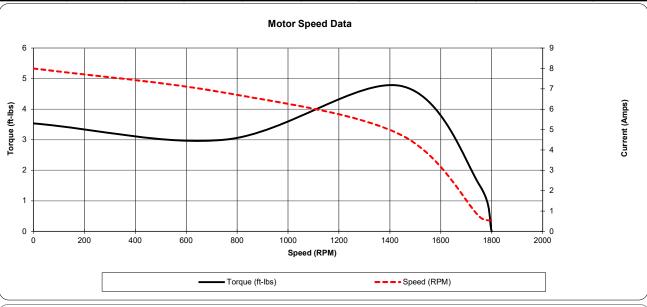
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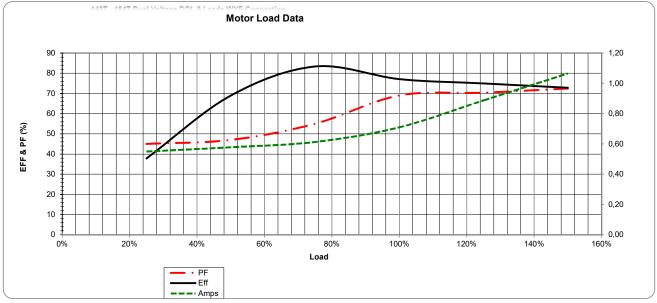
Load %	0%	25%	50%	75%	100%	125%	150%
Amps	0,54	0,55	0,58	0,61	0,71	0,89	1,07
Torq ft/lbs	0	0,37	0,74	1,12	1,50	1,89	2,28
RPM	0	1788,25	1776,5	1764,75	1753	1741,25	1729,5
Eff	0	37,83	68,93	83,32	77,10	74,95	72,81
PF	0	45.0	47	55	69.0	70.4	72.5

56HC

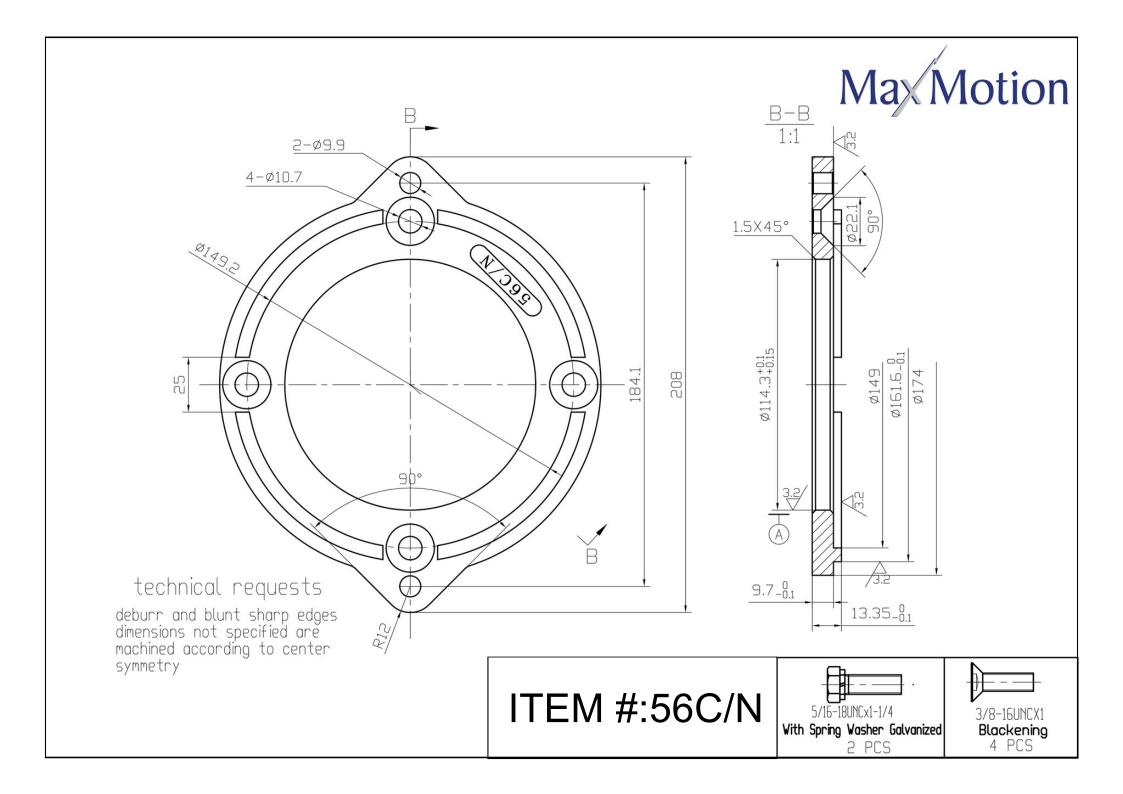
TEFC

	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M		
Speed (RPM)	0	756	1440	1753	1800	Continuous	1,15	40°C	3,300 ft	54		
Current (Amps)	8	6,8	4,8	0,71	0,537	VFD Rating: Meets MG1 parts 31.4.4.2						
Torque (ft-lbs)	3,54	3,00	4,76	1,50	0,0	C.T.	10:1	V.T.	20:1			





MaxMotion Ø0.625 5.24 2.06 0.16 3 1.57 Ø4.5 8.9 0.19 3 2.75 1.88 2.44 4.88 6.3 10.7 MPR-124CH **ENCLOSURE** Version:2HUA Revised: July 2020 **FRAME** HP **RPM** Customer is responsable in determining that MaxMotion product will fit/perform 56C **TEFC** 1/2 1800 suitably in the intended application



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)
0.33	3481	208-230/460	56C	MQR-132CH	Rolled Steel	67.6	1.28-1.31/0.66	L	21	6205	6203	10.7
	3470	575	56C	MPR-132CH	Rolled Steel	62.8	0.57	L	21	6205	6203	10.7
	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
0.50	3466	208-230/460	56C	MQR-122CH	Rolled Steel	71.6	1.74-1.67/0.84	L	21	6205	6203	10.7
	3471	575	56C	MPR-122CH	Rolled Steel	69.3	0.672	L	21	6205	6203	10.7
	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
0.75	3469	208-230/460	56C	MQR-342CH	Rolled Steel	80.3	2.24-2.08/1.04	L	22.5	6205	6203	10.7
	3474	575	56C	MPR-342CH	Rolled Steel	76.2	0.86	L	22.5	6205	6203	10.7
	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
1	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
1.5	3492	208-230/460	56C	MQRP-152CH	Rolled Steel	86.6	4.03-3.81/1.9	L	28	6205	6203	10.7
	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
2	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



