

## 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 #: MPRP-154CH

НР	kW	Voltage	S.F. @ 60Hz	Efficiency	Power Factor	Frame	Design	L.R. Amps
1,5	1,12	575	1,15	86,7%	0,790	56HC	В	15

60 Hz										
	Code	F.L. RPM								
208	230	416	460	480	575	600	Code	F.L. KPW		
1	1	1	1	1	1,65	1	L	1745		

	50 Hz											
НР	kW	Fl	_A	S.F. @ 50Hz	Efficiency	Power	Code	F.L. RPM				
ПР		190	380	3.F. @ 50HZ		Factor	Code					
1	-	1	1	1	1	1	1	1				

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
31	3	Cont.	F	40°C	1000M (3300 Ft)	45

% Efficiency % Power Factor		Torque					
Full Load:	86,7%	Full Load:	0,79	Full Load Ft/Lbs	4,5	Winding	Safe Cold
3/4 Load:	86,9%	3/4 Load:	0,71	Locked Rotor %	353	Resist. Ω	Start (Secs)
1/2 Load:	85,0%	1/2 Load:	0,57	Break Down %	436	16,49	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	Aluminium Alloy		TEFC	IP55	16AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure	Sound Power	
DE	ODE	Grease	імошій туре	Orientation	Pallit	@ 3FT	Souria Power	
6205	6203	Sealed Bearings	Rigid	Horizontal	Black	61	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

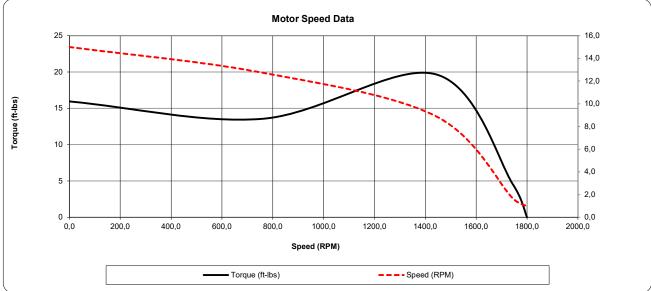
575 VAC 3 phase

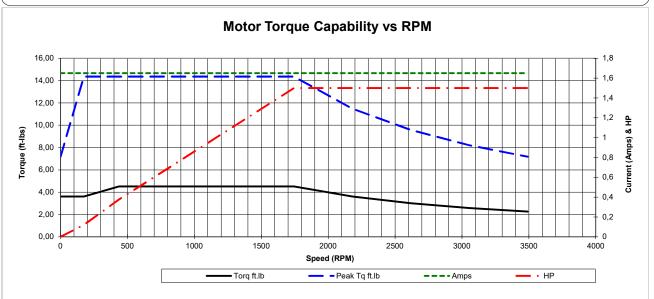


Date: 2024-05-01

Customer: Contact:

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J.C. La	ıvallée	•				•					
eeds MEPS (M	inimum Efficio	ency Performa	nce Standards	), as described	by the US Dep	artment of En	ergy in docket	t 10CFR431 and	d Natural		
			Resources Ca	nada's Amend	dment 14						
VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C		
575	1745	TEFC	56HC	60	В	4	L	F	45		
0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz		
1,65	1,65	1,65	1,65	1,65	1,65	1,65	1,65	1,65	1,65		
0	174,5	436,25	872,5	1308,75	1745	2181,25	2617,5	3053,75	3490		
3,61	3,61	4,51	4,51	4,51	4,51	3,61	3,01	2,58	2,26		
7,18	14,36	14,36	14,36	14,36	14,36	11,49	9,57	8,20	7,18		
0	0,1	0,4	0,8	1,1	1,5	1,5	1,5	1,5	1,5		
<b>Locked Rotor</b>	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M		
0,0	756	1440	1745	1800	Continuous	1,15	40°C	3,300 ft	61		
15,0	12,8	8,9	1,7	1,0		VFD Rating:	Meets MG1 p	arts 31.4.4.2			
15,9	13,5	19,7	4,5	0,0	C.T.	10:1	V.T.	20:1			
	VAC 575  OHz 1,65 0 3,61 7,18 0  Locked Rotor 0,0 15,0	VAC         RPM           575         1745           0Hz         6Hz           1,65         1,65           0         174,5           3,61         3,61           7,18         14,36           0         0,1           Locked Rotor         Pull-Up           0,0         756           15,0         12,8	VAC         RPM         Enclosure           575         1745         TEFC           0Hz         6Hz         15Hz           1,65         1,65         1,65           0         174,5         436,25           3,61         3,61         4,51           7,18         14,36         14,36           0         0,1         0,4           Locked Rotor         Pull-Up         Breakdown           0,0         756         1440           15,0         12,8         8,9	Resources Candards           VAC         RPM         Enclosure         Frame           575         1745         TEFC         56HC           OHz         6Hz         15Hz         30Hz           1,65         1,65         1,65         1,65           0         174,5         436,25         872,5           3,61         3,61         4,51         4,51           7,18         14,36         14,36         14,36           0         0,1         0,4         0,8           Locked Rotor         Pull-Up         Breakdown         Rated Load           0,0         756         1440         1745           15,0         12,8         8,9         1,7	Reeds MEPS (Minimum Efficiency Performance Standards), as described Resources Canada's Amend           VAC         RPM         Enclosure         Frame         Frequency           575         1745         TEFC         56HC         60           OHZ         6Hz         15Hz         30Hz         45Hz           1,65         1,65         1,65         1,65         1,65           0         174,5         436,25         872,5         1308,75           3,61         3,61         4,51         4,51         4,51           7,18         14,36         14,36         14,36         14,36           0         0,1         0,4         0,8         1,1           Locked Rotor         Pull-Up         Breakdown         Rated Load         Idle           0,0         756         1440         1745         1800           15,0         12,8         8,9         1,7         1,0	Resources Canada's Amendment 14           VAC         RPM         Enclosure         Frame         Frequency         Design           575         1745         TEFC         56HC         60         B           OHZ         6HZ         15HZ         30HZ         45HZ         60HZ           1,65         1,65         1,65         1,65         1,65         1,65           0         174,5         436,25         872,5         1308,75         1745           3,61         3,61         4,51         4,51         4,51         4,51           7,18         14,36         14,36         14,36         14,36         14,36           0         0,1         0,4         0,8         1,1         1,5           Locked Rotor         Pull-Up         Breakdown         Rated Load         Idle         Duty           0,0         756         1440         1745         1800         Continuous           15,0         12,8         8,9         1,7         1,0	J.C. Lavallée	J.C. Lavallée	J.C. Lavallée		







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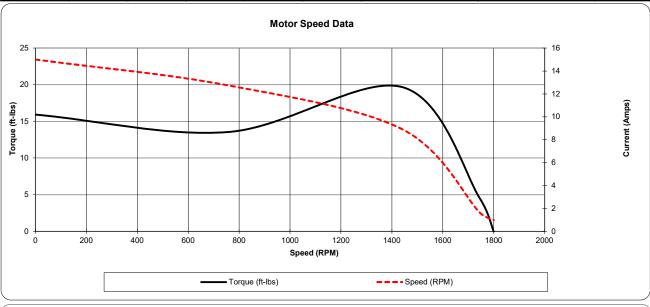
Submittee: J.C. Lavallée

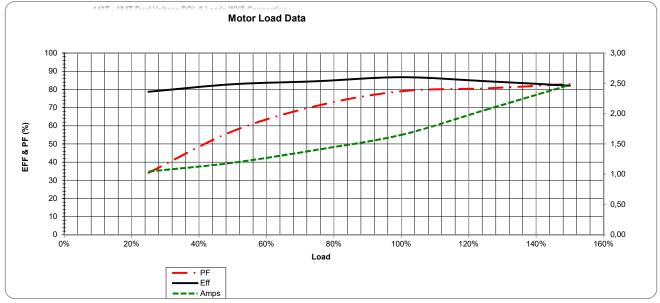
Meets or ex	Meets or exceeds MEPS (Minimum Efficiency Performance Standards), as described by the US Department of Energy in docket 10CFR431 and Natural Resources Canada's Amendment 14										
НР	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code	Insulation	Temp. Rise	

					. ,	ű		Letter	Class	°C
1,5	575	1745	TEFC	56HC	60	В	4	L	F	45
								_		
Load %	0%	25%	50%	75%	100%	125%	150%			
A	0.00	1.05	1 10	1 11	1.05	2.00	2.40	1		

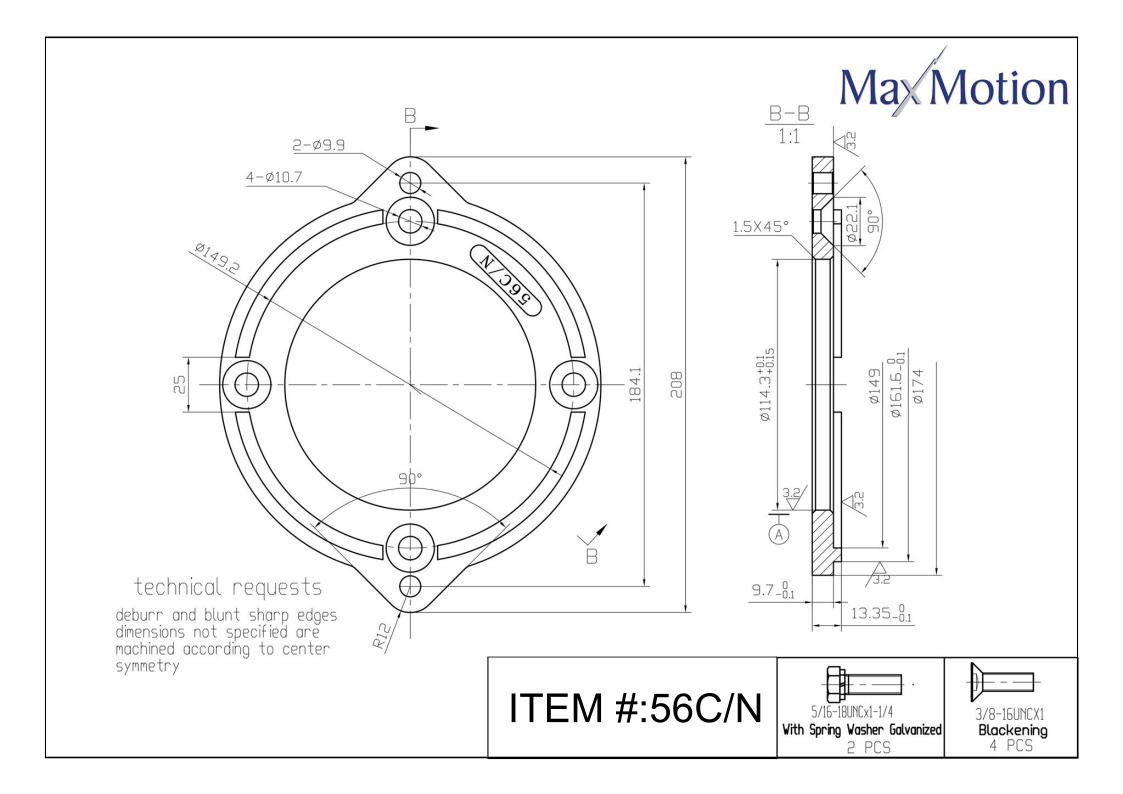
Load %	0%	25%	50%	75%	100%	125%	150%	
Amps	0,99	1,05	1,19	1,41	1,65	2,06	2,48	
Torq ft/lbs	0	1,10	2,22	3,36	4,51	5,69	6,88	
RPM	0	1786,25	1772,5	1758,75	1745	1731,25	1717,5	
Eff	0	78,71	82,83	84,48	86,70	84,51	82,09	
PF	0	34,2	57	71	79,0	80,6	83,0	
	_	-						

	<b>Locked Rotor</b>	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M		
Speed (RPM)	0	756	1440	1745	1800	Continuous	1,15	40°C	3,300 ft	61		
Current (Amps)	15	12,8	8,9	1,65	0,992	VFD Rating: Meets MG1 parts 31.4.4.2						
Torque (ft-lbs)	15,94	13,55	19,68	4,51	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 11.5 MPRP-154CH **ENCLOSURE** Version:2HUA Revised: July 2020 **FRAME** HP **RPM** Customer is responsable in determining that MaxMotion product will fit/perform 56C **TEFC** 1.5 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 11 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
	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
	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
1	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
	3500	208-230/460	56C	MQRP-202CH	Rolled Steel	85.5	5.39-5.05/2.53	L	32	6205	6203	11.5
2	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



