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 #: MPR-126CW

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
0,5	0,37	575	1,15	68,0%	0,530	56HC	B	8

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
/	/	/	/	/	1,04	/	L	1160

50 Hz								
HP	kW	FLA		S.F. @ 50Hz	Efficiency	P.F.	Code	F.L. RPM
		190	380					
/	-	/	/	/	/	/	/	/

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
25	3	Cont.	F	40°C	1000M (3300 Ft)	52

% Efficiency		% Power Factor			Torque		
Full Load:	68,0%	Full Load:	0,53	Full Load Ft/Lbs	2,3	Winding Resist. Ω	Safe Cold Start (Secs)
3/4 Load:	62,6%	3/4 Load:	0,49	Locked Rotor %	260		
1/2 Load:	49,3%	1/2 Load:	0,45	Break Down %	270	/	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	Black	/	/

Inverter Duty. Motor meets MG1 parts 31.4.4.2	Constant Torque Range	Variable Torque Range	Constant HP RPM	
	10:1	20:1	1800	

WIRING CONNECTION DIAGRAM : D

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

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

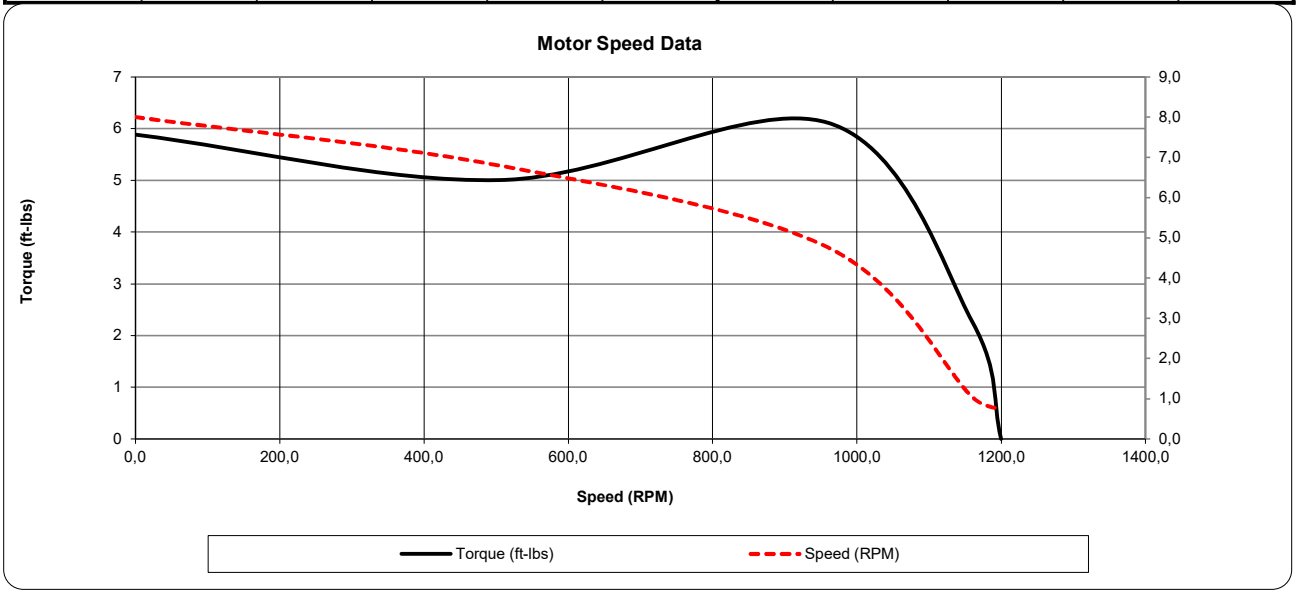
Catalogue #: MPR-126CW

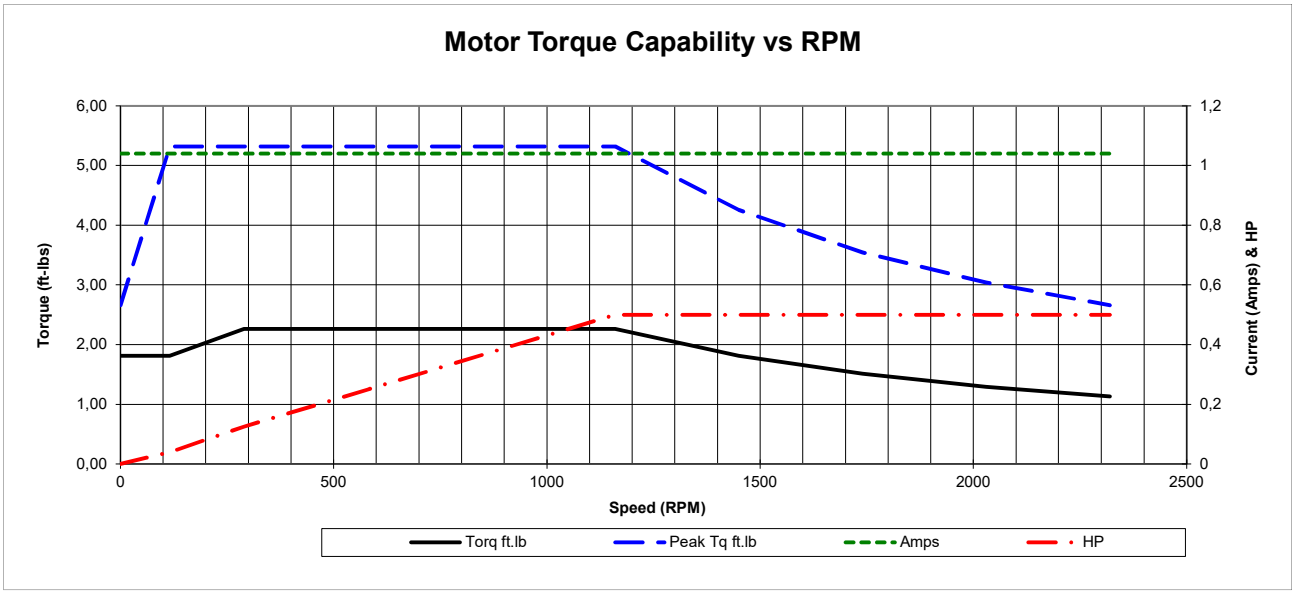
Meets or exceeds MEPS (Minimum Efficiency Performance Standards), as described by the US Department of Energy in docket 10CFR431 and Natural Resources Canada's Amendment 14

HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
0,5	575	1160	TEFC	56HC	60	B	6	L	F	52

	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	1,04	1,04	1,04	1,04	1,04	1,04	1,04	1,04	1,04	1,04
RPM	0	116	290	580	870	1160	1450	1740	2030	2320
Torq ft.lb	1,81	1,81	2,26	2,26	2,26	2,26	1,81	1,51	1,29	1,13
Peak Tq ft.lb	2,66	5,32	5,32	5,32	5,32	5,32	4,26	3,55	3,04	2,66
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	504	960	1160	1200	Continuous	1,15	40°C	3,300 ft	/
Current (Amps)	8,0	6,8	4,8	1,0	0,7	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	5,9	5,0	6,1	2,3	0,0	C.T.	10:1	V.T.	20:1	





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

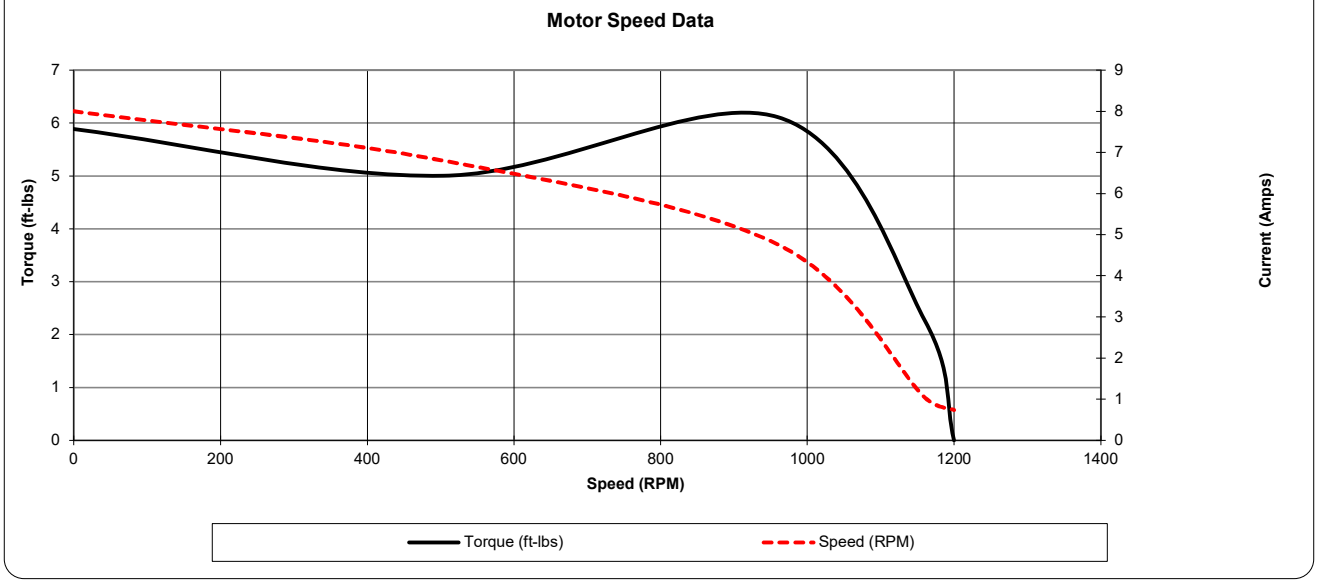
Catalogue #: MPR-126CW

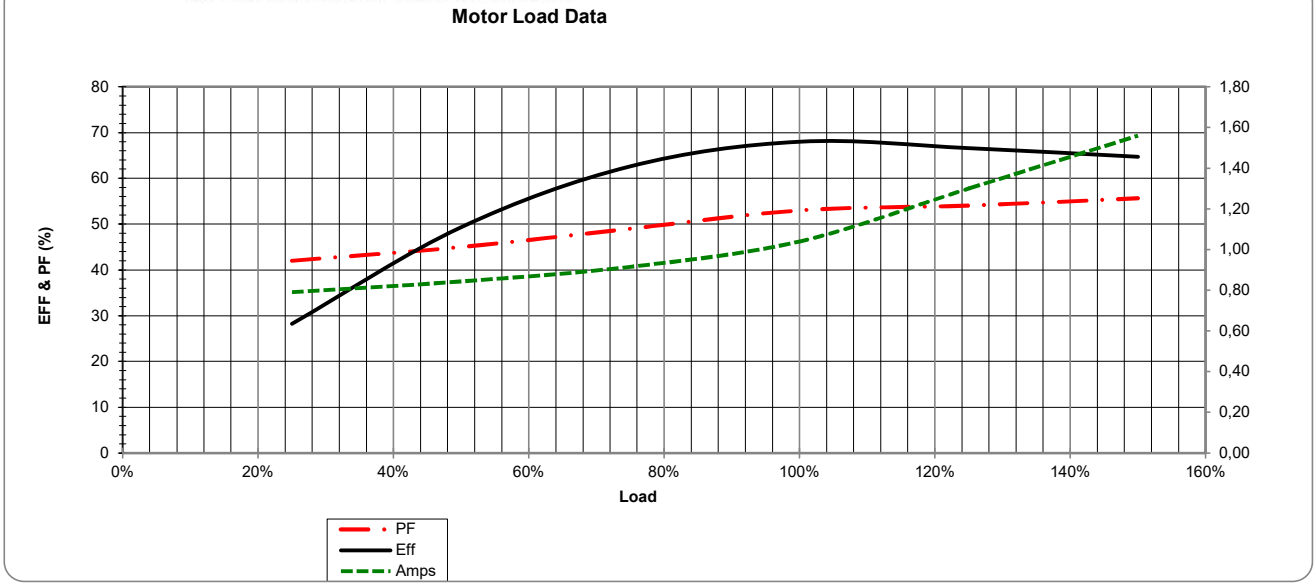
Meets or exceeds MEPS (Minimum Efficiency Performance Standards), as described by the US Department of Energy in docket 10CFR431 and Natural Resources Canada's Amendment 14

HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
0,5	575	1160	TEFC	56HC	60	B	6	L	F	52

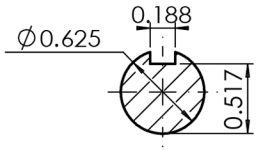
Load %	0%	25%	50%	75%	100%	125%	150%
Amps	0,74	0,79	0,84	0,92	1,04	1,30	1,56
Torq ft/lbs	0	0,55	1,11	1,68	2,26	2,85	3,46
RPM	0	1190	1180	1170	1160	1150	1140
Eff	0	28,21	49,34	62,64	68,00	66,62	64,71
PF	0	42,0	45	49	53,0	54,1	55,7

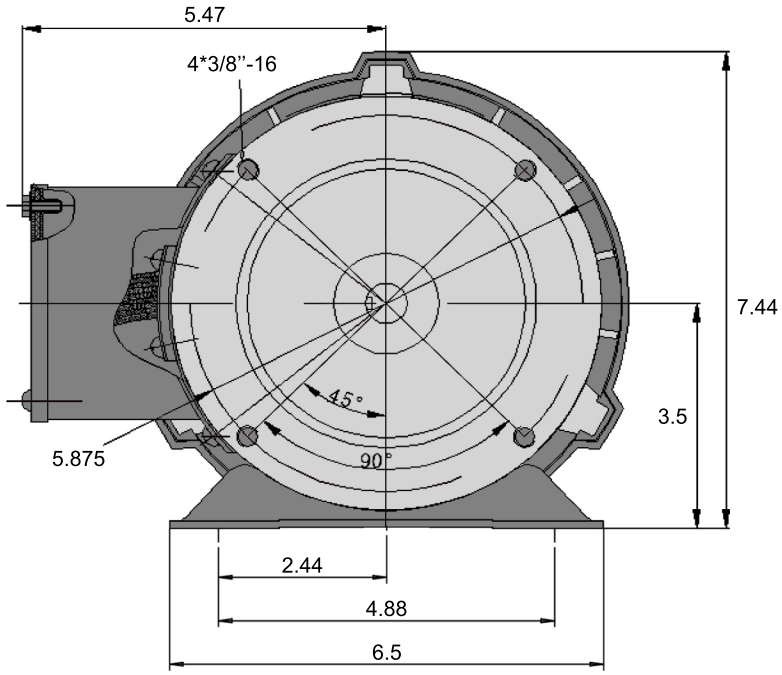
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	504	960	1160	1200	Continuous	1,15	40°C	3,300 ft	/
Current (Amps)	8	6,8	4,8	1,04	0,7384	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	5,89	5,00	6,11	2,26	0,0	C.T.	10:1	V.T.	20:1	

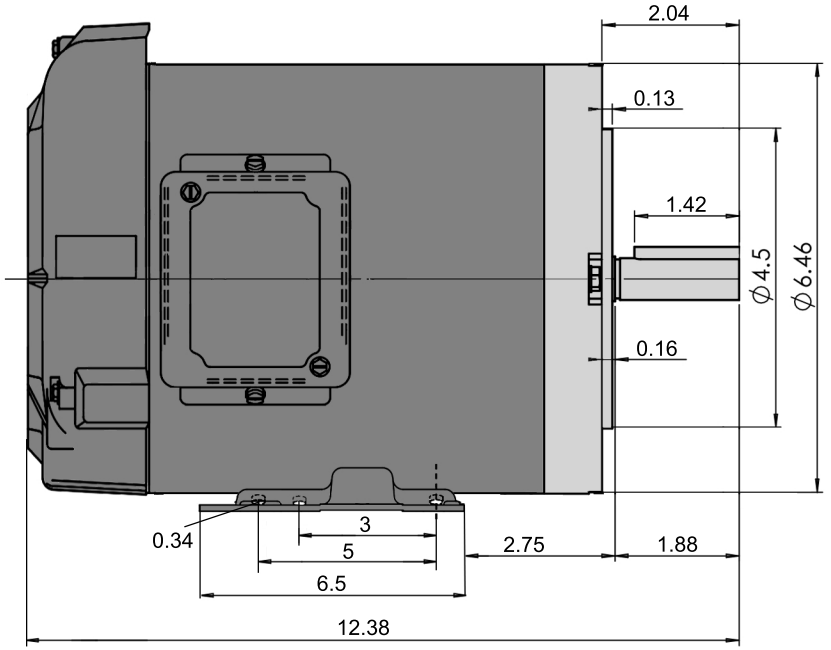




MaxMotion







Version:1WEI	Revised: March 2024	HP	RPM	FRAME	ENCLOSURE
Customer is responsable in determining that MaxMotion product will fit/perform suitably in the intended application		1/2	1160	56CH	TEFC

MPR/MQR-126CW

THREE PHASE ALL-IN-ONE 56HC AC MOTORS

HEAVY GAUGE ROLLED STEEL CONSTRUCTION

TEFC TOTALLY ENCLOSED FAN COOLED | ALL-IN-ONE FRAME 56HC

MaxMotion

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 - IP55

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 ALL-IN-ONE 56HC AC MOTORS

HEAVY GAUGE ROLLED STEEL CONSTRUCTION

TEFC TOTALLY ENCLOSED FAN COOLED | ALL-IN-ONE FRAME 56HC

MaxMotion

HP	RPM	VOLTS	FRAME	CAT NO.	NOM EFF.	F.L. AMPS	WT (Lbs)	"C" DIMENSION (Inch)	BRAKE KITS	BRAKE VOLTAGE	FT.LBS
0.33	1800	230/460	56HC	MQR-134CW	72	1.4/.7	22	12.38	A301	230/460	3
	1800	575	56HC	MPR-134CW	72	0.56	22	12.38	A297	575	3
	1200	230/460	56HC	MQR-136CW	63	2.38/1.18	24	12.38	A301	230/460	3
	1200	575	56HC	MPR-136CW	63	0.94	24	12.38	A297	575	3
0.50	1800	230/460	56HC	MQR-124CW	74	1.90/.95	24	12.38	A301	230/460	3
	1800	575	56HC	MPR-124CW	74	0.76	24	12.38	A297	575	3
	1200	230/460	56HC	MQR-126CW	68	2.6/1.3	25	12.38	A302	230/460	6
	1200	575	56HC	MPR-126CW	68	1.04	25	12.38	A298	575	6
0.75	1800	230/460	56HC	MQR-344CW	77	2.72/1.36	25.3	12.38	A302	230/460	6
	1800	575	56HC	MPR-344CW	77	1.09	25.3	12.38	A298	575	6
	1200	230/460	56HC	MQR-346CW	74	3.4/1.7	34	12.38	A302	230/460	6
	1200	575	56HC	MPR-346CW	74	1.36	34	12.38	A298	575	6
1	1800	230/460	56HC	MQRP-104CW	85.5	3.08/1.54	27	12.38	A302	230/460	6
	1800	575	56HC	MPRP-104CW	85.5	1.23	27	12.38	A298	575	6
	1200	230/460	56HC	MQRP-106CW	82.5	3.92/1.97	28	12.38	A303	230/460	10
	1200	575	56HC	MPRP-106CW	82.5	1.57	28	12.38	A299	575	10
1.5	1800	230/460	56HC	MQRP-154CW	86.5	4.45/2.23	31	12.38	A303	230/460	10
	1800	575	56HC	MPRP-154CW	86.5	1.78	31	12.38	A299	575	10
2	1800	230/460	56HC	MQRP-204CW	86.5	5.75/2.88	37	13.95	A303	230/460	10
	1800	575	56HC	MPRP-204CW	86.5	2.3	37	13.95	A299	575	10
3	1800	230/460	56HC	MQRP-304CW	89.5	8/4	37	13.95	A303	230/460	10
	1800	575	56HC	MPRP-304CW	89.5	3.2	37	13.95	A299	575	10