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 #: MQRP-302J

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
3	2.24	230 / 460	1.15	86.5%	0.896	56J	B	36

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
8.02	7.25	/	3.625	/	/	/	L	3490

50 Hz								
HP	kW	FLA		S.F. @ 50Hz	Efficiency	P.F.	Code	F.L. RPM
		190	380					
2	1.492	6.4	3.2	1.15	85.5%	0.83	L	2870

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
42	3	Cont.	F	40°C	1000M (3300 Ft)	68

% Efficiency		% Power Factor			Torque		
Full Load:	86.5%	Full Load:	0.90	Full Load Ft/Lbs	4.5	Winding Resist. Ω	Safe Cold Start (Secs)
3/4 Load:	0.0%	3/4 Load:	0.80	Locked Rotor %	220		
1/2 Load:	0.0%	1/2 Load:	0.68	Break Down %	310	/	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			TEFC	IP55	0

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	2	

WIRING CONNECTION DIAGRAM : A

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

Date: 2020-04-20
Customer:
Contact:
Submittee: J.C. Lavallée

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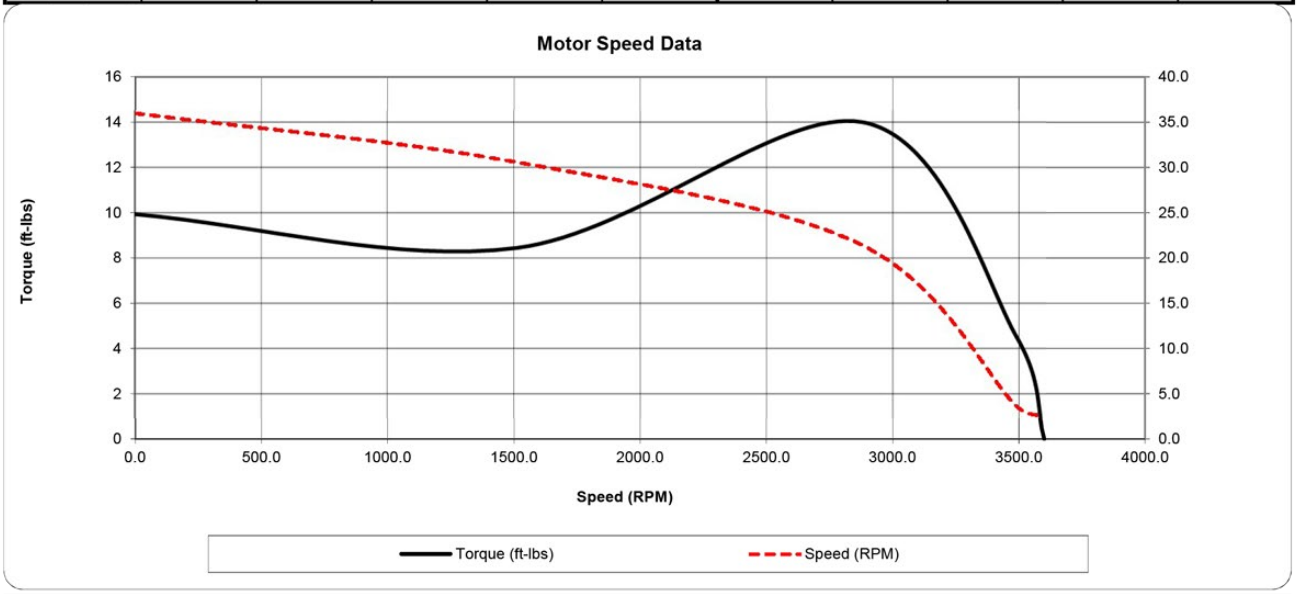
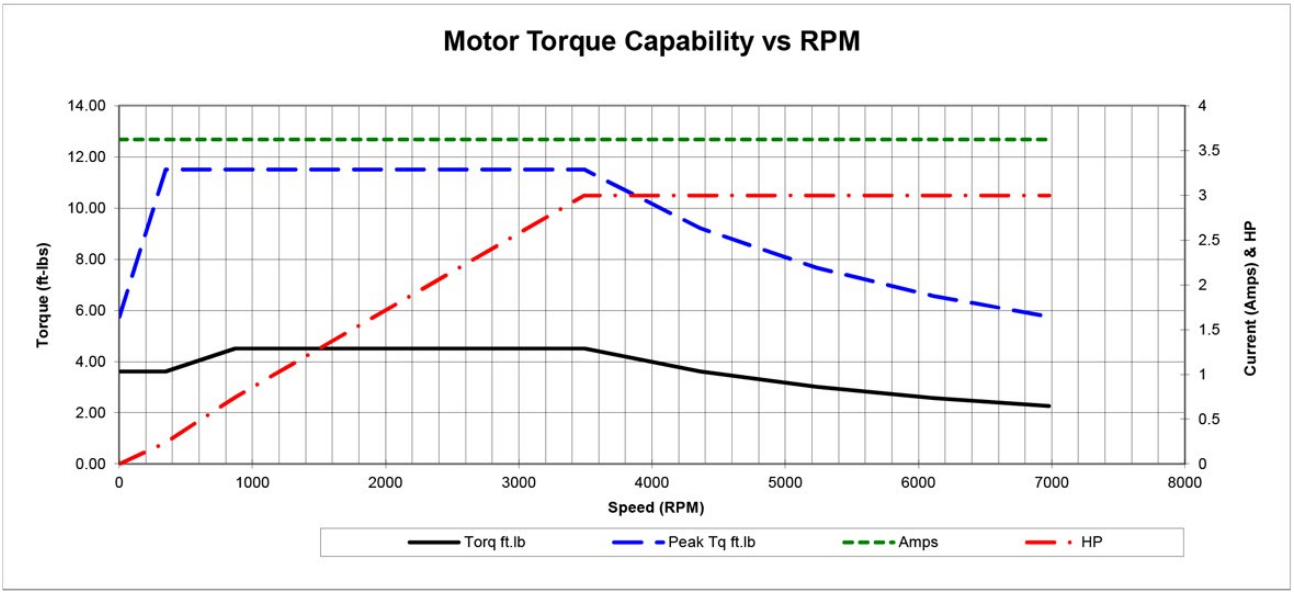
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
3	460	3490	TEFC	56J	60	B	2	L	F	68

	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	3.625	3.625	3.625	3.625	3.625	3.625	3.625	3.625	3.625	3.625
RPM	0	349	872.5	1745	2617.5	3490	4362.5	5235	6107.5	6980
Torq ft.lb	3.61	3.61	4.51	4.51	4.51	4.51	3.61	3.01	2.58	2.26
Peak Tq ft.lb	5.76	11.51	11.51	11.51	11.51	11.51	9.21	7.67	6.58	5.76
HP	0	0.2	0.8	1.5	2.3	3.0	3.0	3.0	3.0	3.0

	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0.0	1512	2880	3490	3600	Continuous	1.15	40°C	3,300 ft	/
Current (Amps)	36.0	30.6	21.4	3.6	2.6	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	9.9	8.4	14.0	4.5	0.0	C.T.	10:1	V.T.	20:1	





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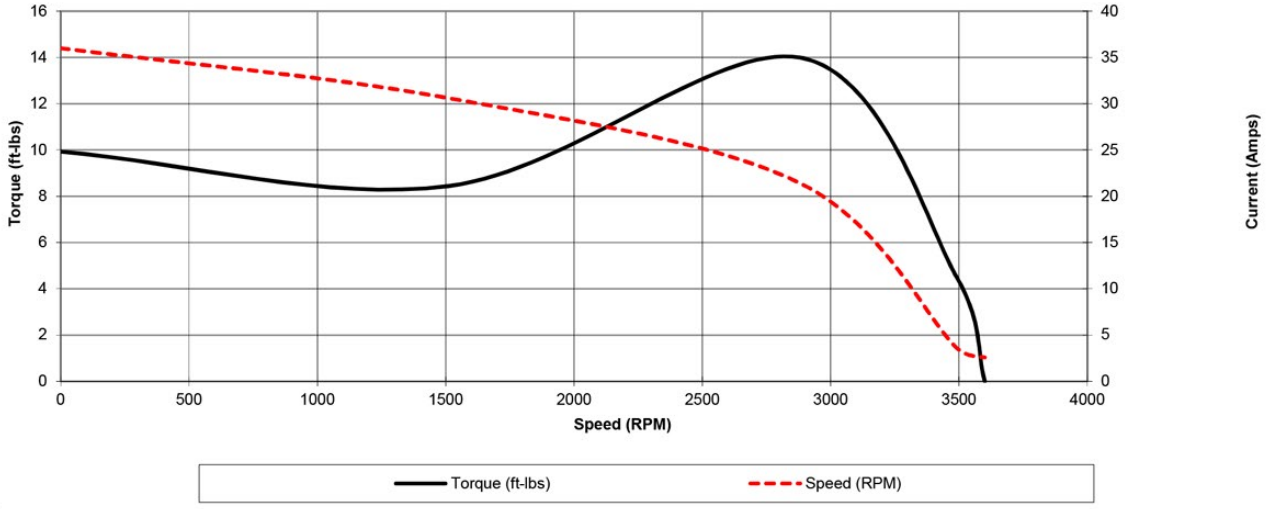
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
3	460	3490	TEFC	56J	60	B	2	L	F	68

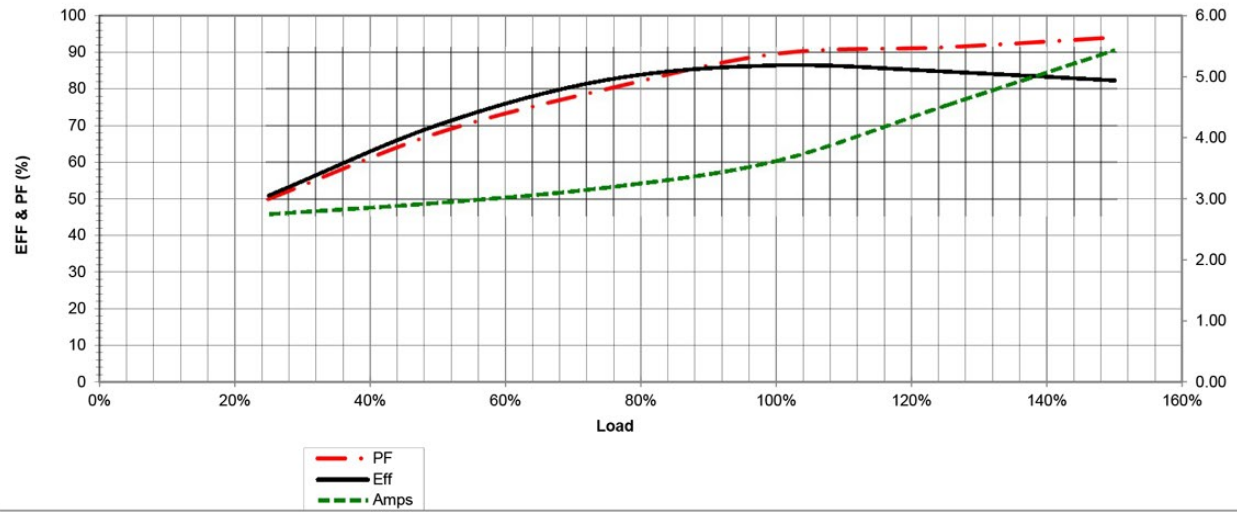
Load %	0%	25%	50%	75%	100%	125%	150%
Amps	2.57	2.76	2.94	3.19	3.63	4.53	5.44
Torq ft/lbs	0	1.10	2.22	3.36	4.51	5.69	6.88
RPM	0	3572.5	3545	3517.5	3490	3462.5	3435
Eff	0	50.98	70.26	82.55	86.50	84.79	82.37
PF	0	50.0	68	80	89.6	91.4	94.1

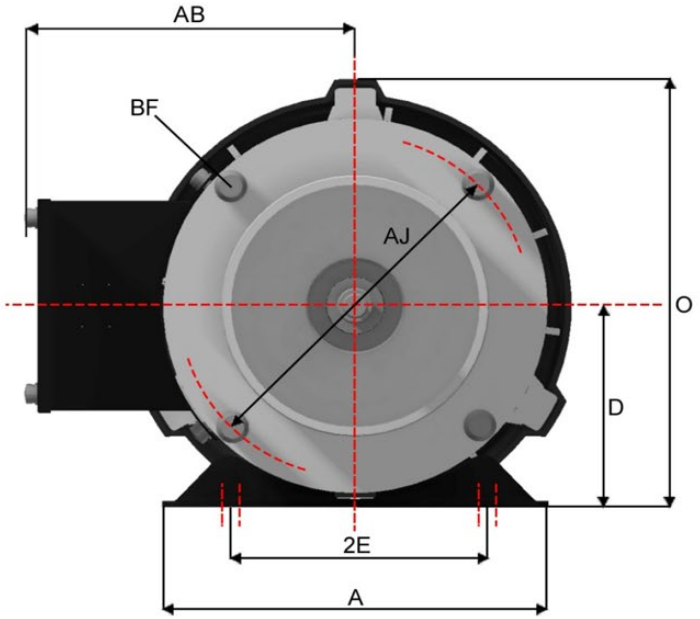
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	1512	2880	3490	3600	Continuous	1.15	40°C	3,300 ft	/
Current (Amps)	36	30.6	21.4	3.625	2.57375	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	9.93	8.44	14.00	4.51	0.0	C.T.	10:1	V.T.	20:1	

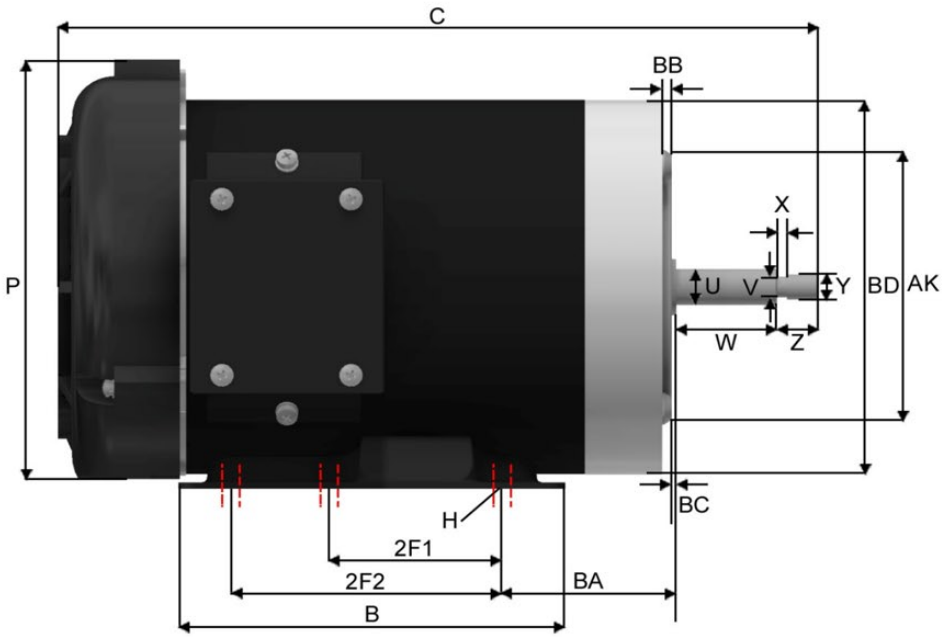
Motor Speed Data



Motor Load Data







Version: 1WTI			Revised: 20-04-2020			HP	RPM	FRAME	ENCLOSURE	MPRP/MQRP-302J			
Customer is responsible in determining that MEP product will fit/perform suitably in the intended application						3	3485	56J	TEFC				
A	**B**	**C**	**D**	**2E**	**2F1**	**2F2**	**H**	**O**	**P**	**U**	**V**	**W**	**X**
6.5	6.50	14.45	3.50	4.88	3.00	5.00	0.34	7.44	7.25	0.625	0.372-0.362	1.693	0.118
Y		**Z**	**AB**	**AJ**	**AK**	**BA**	**BB**	**BC**	**BD**	**BF**			
7/16-20 UNF-2A R H		0.689	5.47	5.875	4.50	2.75	0.16	0.031	6.45	4*3/8-16			

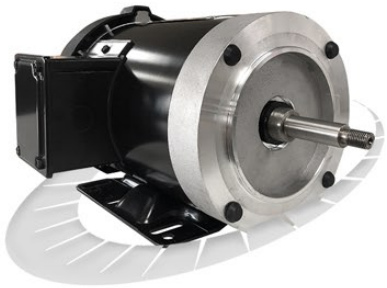
JET PUMP 56J 3 PHASE AC MOTORS

HEAVY GAUGE ROLLED STEEL CONSTRUCTION

TEFC TOTALLY ENCLOSED FAN COOLED

MaxMotion

Applications:



Jet pump motors are designed for industrial and commercial applications in mind. Motors are designed with removable feet, allowing easy replacement of footless flange mounted motors or rigid base 56J TEFC motors mounting. Motor construction is suitable for processing, water treatment, and circulatory pumps. Typical industries where applicable, cement, chemical, food processing, agriculture & pulp & paper.

Features:

Design - MG-1 Design B and MG-1 Part 31, ambient temperature 40°C, altitude 100M, temperature rise B.

Agency Listings and Standard - NEMA, CSAus & CE Certified, Meets or exceeds MEPS (Minimum Efficieny Performance Standards) as described by US Department of Energy in docket 10CFR431 and Natural Resources Canada's Amendment 14 and RoHS compliant.

Service Factor - 1.15

Electrical Supply - 3 phase, 230/460VAC, 575VAC @ 60Hz: 3 phase 190/380VAC @ 50Hz, rated to the next lower HP.

Mounting - F1 Standard Assembly with removable 56H Rigid Base and NEMA C-Face Output w/316SS Threaded Shaft

Windings - Highest quality Corona Resistant, Inverter duty copper wire. VPI 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.

Voltage and Frequency Variation - ±10%

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

Enclosure Protection - IP55

Frame Construction - Rolled Steel with cast aluminum end shields and 316SS shaft.

Conduit Box - Rotatable 180°, with ½ NPT knockouts positioned for wiring access every 90° with rubber gasket between box and motor frame.

Inverter Duty - Contant torque: 10/1, variable torque: 20/1

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

JET PUMP 56J 3 PHASE AC MOTORS

HEAVY GAUGE ROLLED STEEL CONSTRUCTION

TEFC TOTALLY ENCLOSED FAN COOLED

MaxMotion

HP	FL RPM	VOLTS	FRAME	CAT NO.	CONSTRUCTION	NOM EFF.	F.L. AMPS	CODE	WT (Lbs)	DE BRG	ODE BRG	"C" Dimension (Inch)
0.33	3490	208-230/460	56J	MQR-132J	Rolled Steel	63	1.46-1.32/.66	L	21	6205	6203	12.88
	3490	575	56J	MPR-132J	Rolled Steel	63	0.528	L	21	6205	6203	12.88
0.50	3445	208-230/460	56J	MQR-122J	Rolled Steel	70	1.99-1.8/.9	L	21	6205	6203	12.88
	3445	575	56J	MPR-122J	Rolled Steel	70	0.72	L	21	6205	6203	12.88
0.75	3455	208-230/460	56J	MQR-342J	Rolled Steel	73	2.63-2.37/1.87	L	22.5	6205	6203	12.88
	3455	575	56J	MPR-342J	Rolled Steel	73	0.95	L	22.5	6205	6203	12.88
1	3470	208-230/460	56J	MQRP-102J	Rolled Steel	77	3.37-3.05/1.53	L	25	6205	6203	12.88
	3470	575	56J	MPRP-102J	Rolled Steel	77	1.22	L	25	6205	6203	12.88
1.5	3480	208-230/460	56J	MQRP-152J	Rolled Steel	84	4.51-4.08/2.04	L	28	6205	6203	12.88
	3480	575	56J	MPRP-152J	Rolled Steel	84	1.63	L	28	6205	6203	12.88
2	3480	208-230/460	56J	MQRP-202J	Rolled Steel	85.5	5.69-5.15/2.58	L	32	6205	6203	12.88
	3480	575	56J	MPRP-202J	Rolled Steel	85.5	2.06	L	32	6205	6203	12.88
3	3490	208-230/460	56J	MQRP-302J	Rolled Steel	86.5	8.02-7.25/3.63	L	42	6205	6203	14.45
	3490	575	56J	MPRP-302J	Rolled Steel	86.5	2.9	L	42	6205	6203	14.45