



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 #:

MTR-122FDCH

HP	kW	Voltage	Frequency	Efficiency	Power Factor	Frame	Design	F.L. RPM
0,5	0,37	115 / 208 - 230	60Hz	71,3%	0,910	56C	B	3520

FLA			Service Factor	N.L. Amps @ 115V	N.L. Amps @ 230V	KVA Code	L.R. Amps @ 15v	L.R. Amps @ 230v
115	208	230						
5,03	2,78	2,52	1,15	2,53	1,264	L	42	21

Start Cap.	Run Cap.	Main Winding Ω 115V @ 25°C	Main Winding Ω 230V @ 25°C	Auxillary Winding Ω @ 25°C	Safe Cold Start (Secs)
100 μ f/300vac	30 μ f/450vac	0,7600	3,050	3,280	12

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
25	1	Cont.	F	40°C	1000M (3,300 Ft)	32

% Efficiency		Power Factor		Torque		Protection
Full Load:	71,3%	Full Load:	0,91	Full Load Ft/Lbs	0,7	
3/4 Load:	66,4%	3/4 Load:	0,88	Locked Rotor %	393	
1/2 Load:	49,1%	1/2 Load:	0,86	Break Down %	343	

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	/

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure 3FT @	Sound Power
DE	ODE						
6205	6203	Sealed Bearings	Rigid	Horizontal	Black	68	/

WIRING CONNECTION DIAGRAM :

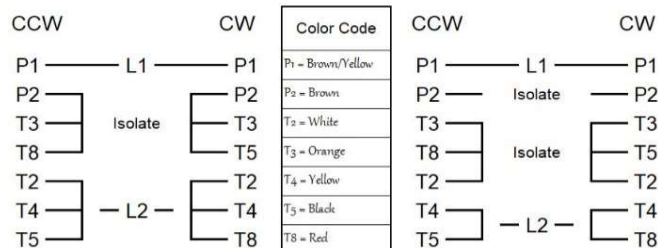
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56C, Dual Voltage, 7 Leads Connection Diagram

Single phase 115 / 208 - 230 VAC

Low Nameplate Voltage

High Nameplate Voltage



* Reverse rotation by inverting T5 & T8 connection leads.



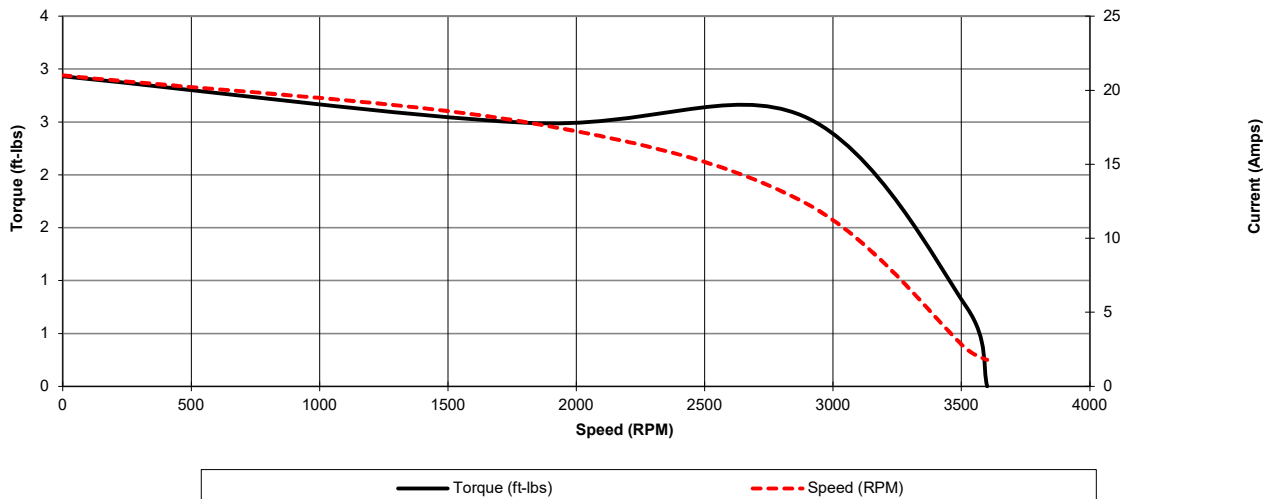
Date: 2024-09-18
Customer:
Contact:
Submittee: J.C. Lavallée

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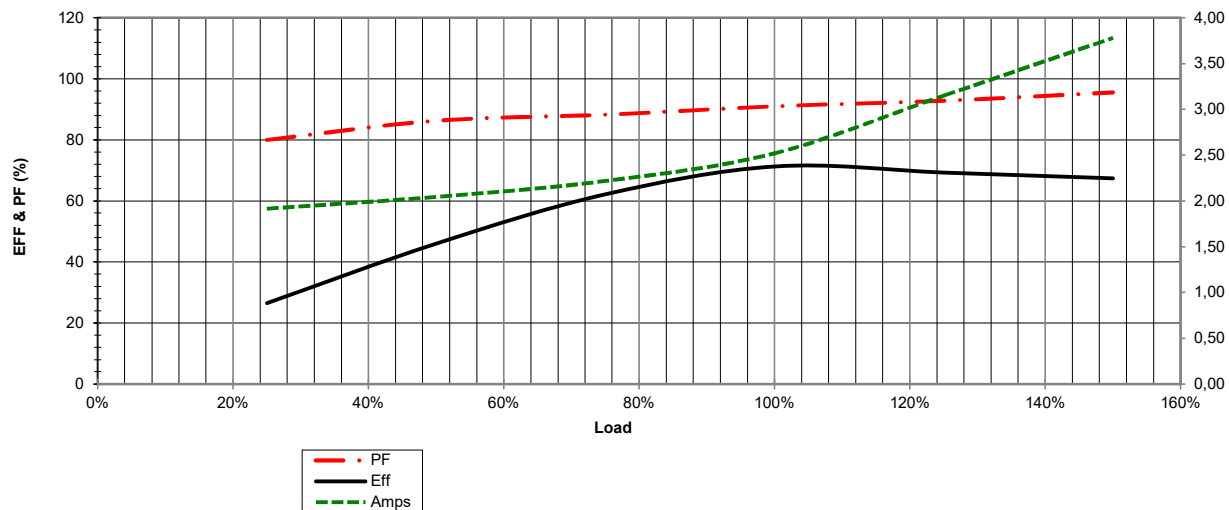
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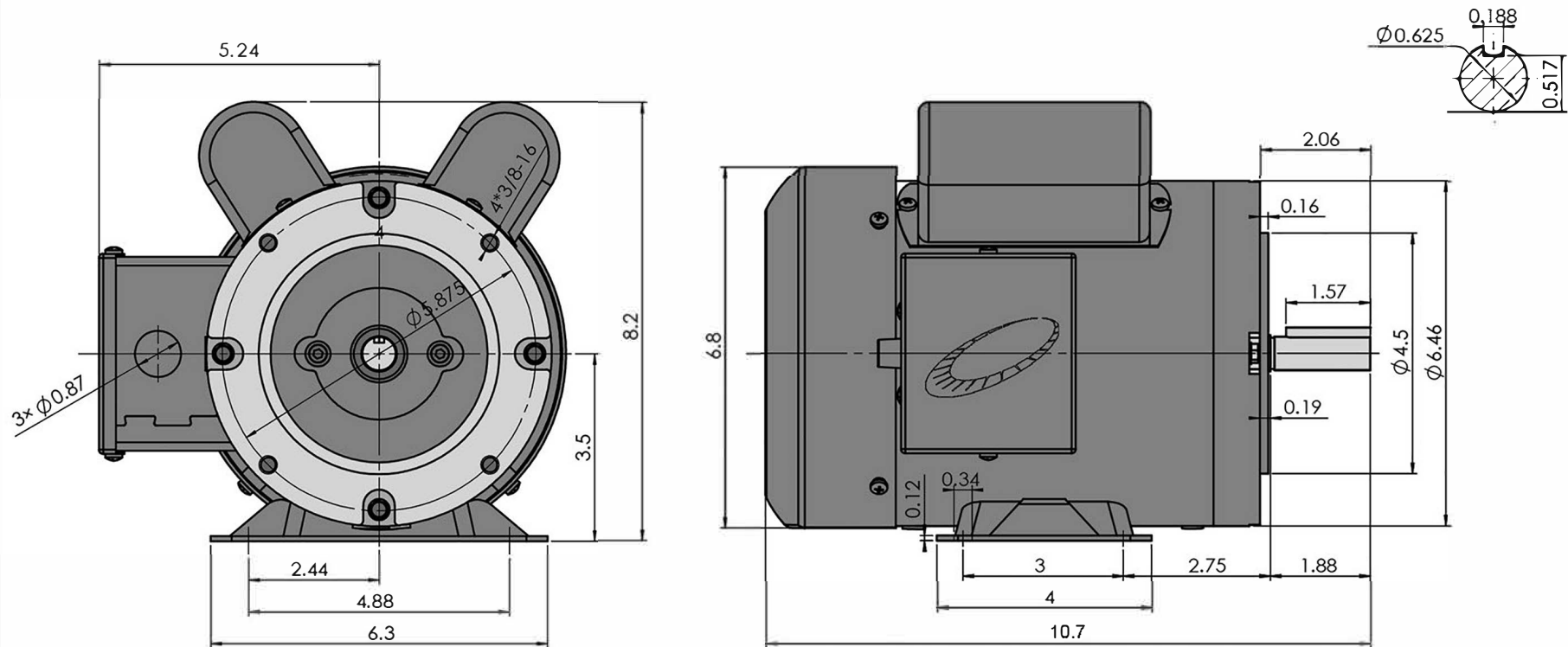
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
0,5	230	3520	TEFC	56C	60	B	2	L	F	32
Load %	0%	25%	50%	75%	100%	125%	150%			
Amps	1,79	1,92	2,04	2,22	2,52	3,15	3,78			
Torq ft/lbs	0	0,18	0,37	0,56	0,75	0,94	1,13			
RPM	0	3580	3560	3540	3520	3500	3480			
Eff	0	26,46	45,99	62,14	71,30	69,33	67,35			
PF	0,00	80,00	86,27	88,27	91,00	92,82	95,55			
Speed (RPM)	0	1800	2880	3520	3600	Continuous	1,15	40°C	3,300 ft	68
Current (Amps)	21	17,9	12,5	2,52	1,7892	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	2,93	2,49	2,56	0,75	0,0	C.T.		V.T.		

Motor Speed Data



Motor Load Data





Version:2HUA	Revised: July 2020	HP	RPM	FRAME	ENCLOSURE	MTR-122FDCH
Customer is responsible in determining that MaxMotion product will fit/perform suitably in the intended application		1/2	3600	56C	TEFC	

SINGLE PHASE GENERAL PURPOSE AC MOTORS

HEAVY GAUGE ROLLED STEEL CONSTRUCTION

TEFC TOTALLY ENCLOSED FAN COOLED

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 - L, suitable for ambient temperature of 40°C, altitude 1000M

Agency Listings and Standard - NEMA, CSAus and CSA Certified, RoHS Compliant

Service Factor - 1.15

Electrical Supply - 115/208-230VAC, 60Hz

Mounting - Universal mounting by feet or C flange.

Windings - VPI with additional dip and bake, with numbered and color coded wire leads.

Insulation - Class F insulation with B temperature rise.

Protection - Manually resettable thermal overload.

Voltage and Frequency Variation - $\pm 10\%$

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

Earthing Terminals - Grounding screw in conduit box

Enclosure Protection - IP55

Frame Construction - Rolled Steel with cast aluminum end shields

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

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



SINGLE PHASE GENERAL PURPOSE AC MOTORS

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HP	FL RPM	VOLTS	FRAME	CATNO.	CONSTRUCTION	NOM EFF.	F.L. AMPS	CODE	WT (Lbs)	DE BRG	ODE BRG	LRT	"C" Dimension (Inch)
0.33	3520	115/208-230	56C	MTR-132FDCH	Rolled Steel	67.3	3.83/2.12-1.92	L	22	6205	6203	300% +	10.7
	1770	115/208-230	56C	MTR-134FDCH	Rolled Steel	68.8	3.92/2.17-1.96	M	26	6205	6203	300% +	10.7
0.50	3520	115/208-230	56C	MTR-122FDCH	Rolled Steel	71.3	5.03/2.78-2.52	L	25	6205	6203	300% +	10.7
	1765	115/208-230	56C	MTR-124FDCH	Rolled Steel	74.6	5.7/3.15-2.85	M	27	6205	6203	300% +	10.7
0.75	3520	115/208-230	56C	MTR-342FDCH	Rolled Steel	77.5	6.82/3.77-3.41	L	26	6203	6203	300% +	10.7
	1760	115/208-230	56C	MTR-344FDCH	Rolled Steel	77	7.33/4.05-3.66	L	31	6205	6203	300% +	11.5
1	3520	115/208-230	56C	MTR-102FDCH	Rolled Steel	77.9	8.61/4.76-4.31	J	30	6205	6203	300% +	11.5
	1760	115/208-230	56C	MTR-104FDCH	Rolled Steel	79.8	9.09/5.02-4.54	K	38	6205	6203	300% +	11.5
1.5	3520	115/208-230	56C	MTR-152FDCH	Rolled Steel	82.3	12.47/6.89-6.23	J	36	6205	6203	283%	11.5
	1750	115/208-230	56HC	MTR-154FDCH	Rolled Steel	81.8	12.41/6.86-6.2	J	44	6205	6203	294%	12.5
2	3510	115/208-230	56HC	MTR-202FDCH	Rolled Steel	83	15.92/8.8-7.96	H	42	6205	6203	273%	12.5
	1750	115/208-230	56HC	MTR-204FDCH	Rolled Steel	84.7	16.17/8.94-8.08	H	50	6205	6203	269%	13.66
	1750	115/208-230	145TC	MTR-204FDTH	Rolled Steel	84.7	16.17/8.94-8.08	H	51	6205	6203	269%	13.7
	1750	115/208-230	145TC	MTR-204FDTCH	Rolled Steel	84.7	16.17/8.94-8.08	H	51	6205	6203	269%	13.8
3	1770	208-230	184TC	MTR-304FDCH	Rolled Steel	87.4	13.2-11.3	H	96	6206	6205	230%	16.5
5	1760	208-230	184TC	MTR-504FDCH	Rolled Steel	85.9	23-19.30	G	109	6206	6205	230%	16.9
7.5	1770	208-230	215T	MTR-754FDH	Rolled Steel	88	33-28.10	H	154	6206	6205	321%	19
10	1770	208-230	215T	MTR-1004FDH	Rolled Steel	88	45.1-38.20	G	172	6206	6205	300%	19