

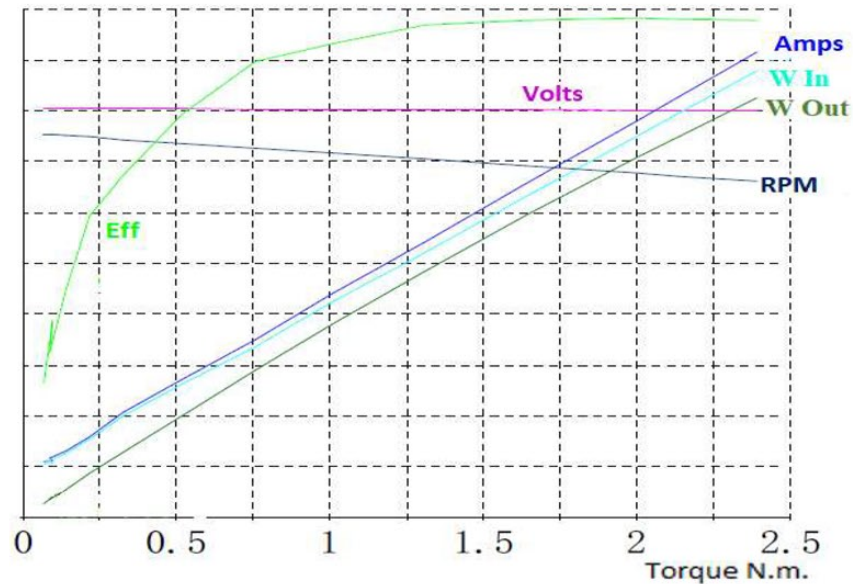
Model: MM5048FC/NV

Description: MaxMotion 0.50HP, 1750RPM, 48VDC, TEFC/NV, 56C

Tester: 01

Test Date: 2018.04.21

V	A	W In	RPM	W out	Eff.%
60	12	600	2500	500	80
54	10.8	540	2250	450	72
48	9.6	480	2000	400	64
42	8.4	420	1750	350	56
36	7.2	360	1500	300	48
30	6	300	1250	250	40
24	4.8	240	1000	200	32
18	3.6	180	750	150	24
12	2.4	120	500	100	16
6	1.2	60	250	50	8
0	0	0	0	0	0



Measured Points	V	A	Input Watts	N.m.	RPM	Output Watts	%
No Load	48.27	1.314	63.42	0.07	1885	13.42	21.2%
Rated	48.05	9.948	477.9	2.14	1678	375	78.5%
Efficiency Max.	48.07	9.357	449.8	2	1692	353.6	78.6%
Max. Kw Output	48.01	10.99	527.5	2.39	1652	412.7	78.2%
Max. Torq. Output	48.01	10.99	527.5	2.39	1652	412.7	78.2%
End	48.01	10.99	527.5	2.39	1652	412.7	78.2%

Load	Measure	V	A	Input Watts	N.m.	RPM	Output Watts	Eff %
3.6%	1	48.27	1.314	63.42	0.07	1885	13.42	21.2%
5.4%	2	48.26	1.348	65.08	0.1	1885	20.13	30.9%
4.6%	3	48.27	1.389	67.03	0.09	1884	17.36	25.9%
7.1%	4	48.27	1.553	74.99	0.14	1880	26.77	35.7%
11.6%	5	48.27	1.902	91.79	0.22	1872	43.51	47.4%
17.1%	6	48.25	2.46	119.5	0.33	1859	64.23	53.8%
26.5%	7	48.23	3.253	156.9	0.52	1840	99.41	63.4%
38.7%	8	48.21	4.193	202.1	0.76	1818	145.0	71.8%
50.6%	9	48.18	5.289	254.8	1.01	1791	189.8	74.5%
64.6%	10	48.14	6.496	312.7	1.31	1761	242.3	77.5%
79.2%	11	48.11	7.888	379.5	1.64	1727	296.9	78.2%
94.3%	12	48.07	9.357	449.8	2	1692	353.6	78.6%
100.0%	13	48.05	9.948	477.9	2.14	1678	375.0	78.5%
110.1%	14	48.01	10.99	527.5	2.39	1652	412.7	78.2%

LOW VOLTAGE DC PERMANENT MAGNET MOTOR

HEAVY GAUGE ROLLED STEEL CONSTRUCTION | TENV TOTALLY NON-VENTILATED & TEFC TOTALLY ENCLOSED FAN COOLED SCR RATED, 12, 24, 48VDC

MaxMotion

Applications:

Low voltage permanent magnet DC motors are suitable for installations having batteries or generator supplied low voltage DC.



Features:

Design - Low voltage

Construction - Rolled Steel, NEMA C-Face Footed with Removable Base

Agency listings and standard - NEMA, UL Recognized and CSA Certified, RoHS Compliant

Service Factor - 1.0

IP Rating - IP45

Insulation - Class F Insulation

Speed Range - 20:1 Constant Torque, Linear Speed/Torque Characteristics over entire speed range

Voltage - 12V, 24V & 48V

Bearings - Permanently Lubricated High quality Double Shielded Ball Bearings

Enclosure Protection - (TEFC) Totally Enclosed Fan Cooled & (TENV) Totally Enclosed Non-Ventilated

Duty - Continuous

Warranty - 18 Months

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HP	FL RPM	VOLTS	FRAME	CAT NO.	CONSTRUCTION	ENCLOSURE	NOM EFF.	F.L. AMPS	DE BEARING	NDE BEARING	WT (Lbs)	"C" Dimension (Inch)
0,25	1680	12	56C	MM2512NV	ROLLED STEEL	TENV	62,40%	30,9	6203	6203	21	10,01
	1680	12	56C	MM2512FC	ROLLED STEEL	TEFC	62,40%	30,9	6203	6203	21	11,6
	1758	24	56C	MM2524FC	ROLLED STEEL	TEFC	62,80%	15,46	6203	6203	21	11,6
	1815	48	56C	MM2548FC	ROLLED STEEL	TEFC	67,50%	7,73	6203	6203	21	11,6
1/3	1789	12	56C	MM3312NV	ROLLED STEEL	TENV	71,30%	38,3	6203	6203	23	10,01
	1789	12	56C	MM3312FC	ROLLED STEEL	TEFC	71,30%	38,3	6203	6203	23	11,6
	1527	24	56C	MM3324NV	ROLLED STEEL	TENV	64,80%	19,1	6203	6203	23	10,01
	1527	24	56C	MM3324FC	ROLLED STEEL	TEFC	64,80%	19,1	6203	6203	23	11,6
	1753	48	56C	MM3348FC	ROLLED STEEL	TEFC	71,40%	9,56	6203	6203	23	11,6
0,5	1714	12	56C	MM5012NV	ROLLED STEEL	TENV	70,90%	47,16	6203	6203	25	10,95
	1714	12	56C	MM5012FC	ROLLED STEEL	TEFC	70,90%	47,12	6203	6203	25	12,49
	1646	24	56C	MM5024FC	ROLLED STEEL	TEFC	77,90%	23,56	6203	6203	25	12,49
	1678	24	56C	MM5048NV	ROLLED STEEL	TENV	78,50%	11,78	6203	6203	25	10,95
	1678	48	56C	MM5048FC	ROLLED STEEL	TEFC	78,50%	11,78	6203	6203	25	12,49
0,75	1573	12	56C	MM7512FC	ROLLED STEEL	TEFC	73,80%	73,6	6203	6203	30	13,55
	1775	24	56C	MM7524FC	ROLLED STEEL	TEFC	75,20%	31,8	6203	6203	30	13,55
1	1672	12	56C	MM1012FC	ROLLED STEEL	TEFC	74,30%	95,4	6203	6203	32	14,3
	1764	24	56C	MM1024FC	ROLLED STEEL	TEFC	77,10%	47,7	6203	6203	32	14,3

