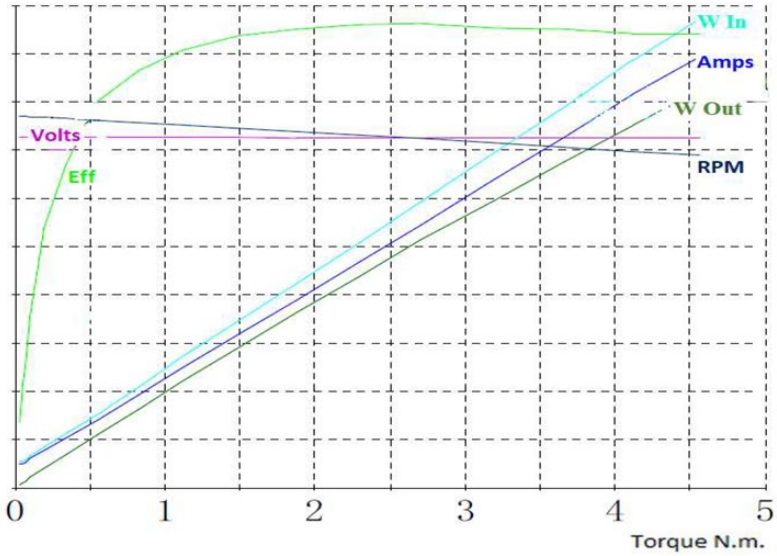
MaxMotion

Motor Test Report

Model: MM1018FC
Description: MaxMotion 1HP, 1750RPM, 180VDC, TEFC, 56C

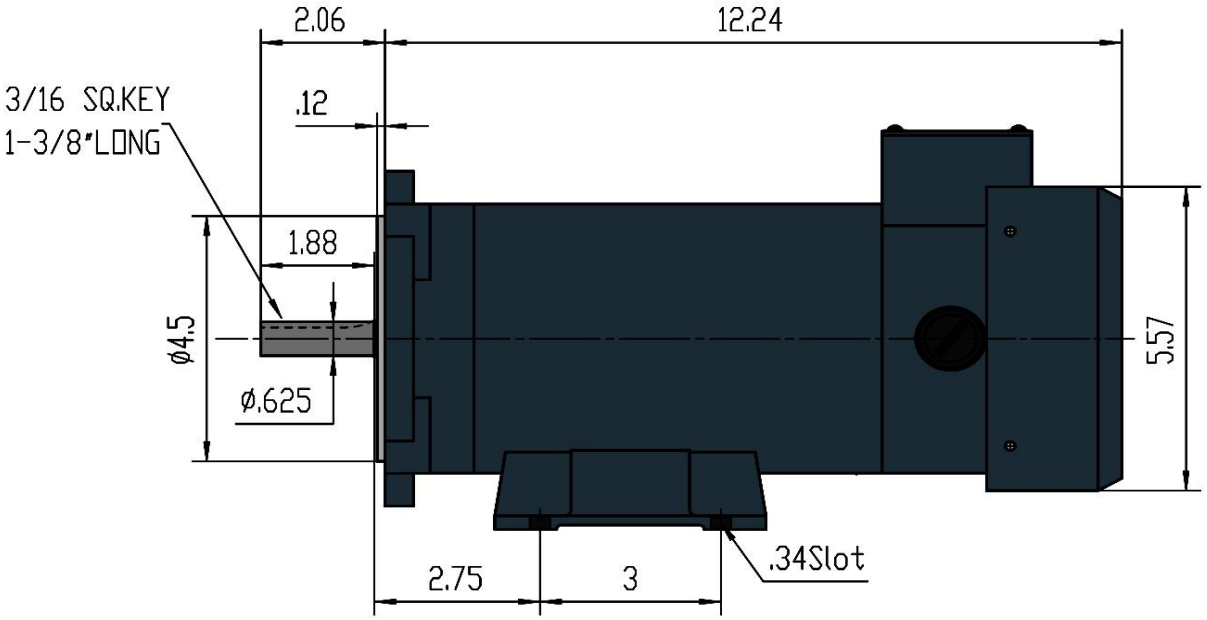
Tester: 01
Test Date: 2019.04.04

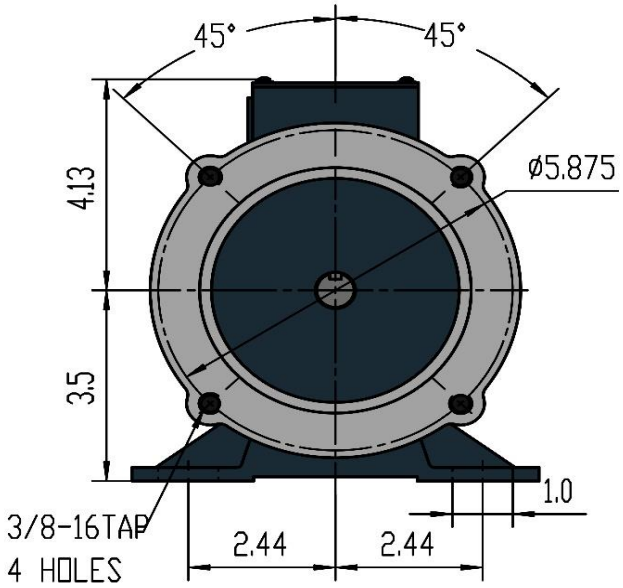
V	A	W In	RPM	W out	Eff.%
250	6	1000	2500	1000	90
225	5.4	900	2250	900	81
200	4.8	800	2000	800	72
175	4.2	700	1750	700	63
150	3.6	600	1500	600	54
125	3	500	1250	500	45
100	2.4	400	1000	400	36
75	1.8	300	750	300	27
50	1.2	200	500	200	18
25	0.6	100	250	100	9
0	0	0	0	0	0



Measured Points	V	A	Input Watts	N.m.	RPM	Output Watts	%
No Load	181.4	0.293	53.15	0.03	1923	6.443	12.1%
Rated	181.1	4.877	885.2	4.11	1739	750	84.7%
Efficiency Max.	181.2	3.269	592.3	2.71	1808	513	86.6%
Max. Kw Output	181.1	5.36	970.8	4.56	1723	822.6	84.7%
Max. Torq. Output	181.1	5.36	970.8	4.56	1723	822.6	84.7%
End	181.1	5.36	970.8	4.56	1723	822.6	84.7%

Load	Measure	V	A	Input Watts	N.m.	RPM	Output Watts	%
0.9%	1	181.4	0.293	53.15	0.03	1923	**6.443**	12.1%
1.4%	2	181.4	0.304	55.07	0.05	1924	**10.48**	19.0%
1.8%	3	181.4	0.318	57.67	0.07	1923	**13.29**	23.0%
2.8%	4	181.4	0.365	66.13	0.1	1922	**20.93**	31.6%
5.4%	5	181.4	0.46	83.47	0.2	1918	**40.56**	48.6%
9.0%	6	181.4	0.617	112.0	0.34	1912	**67.26**	60.1%
14.6%	7	181.4	0.839	152.1	0.55	1902	**109.5**	72.0%
21.8%	8	181.3	1.159	210.1	0.83	1890	**163.5**	77.8%
29.5%	9	181.3	1.493	270.7	1.12	1877	**220.9**	81.6%
38.7%	10	181.3	1.902	344.7	1.49	1860	**290.6**	84.3%
48.3%	11	181.2	2.337	423.7	1.88	1844	**362.6**	85.6%
58.1%	12	181.2	2.787	505.1	2.28	1827	**435.8**	86.3%
68.4%	13	181.2	3.269	592.3	2.71	1808	**513.0**	86.6%
79.4%	14	181.2	3.833	694.5	3.19	1785	**595.8**	85.8%
90.0%	15	181.2	4.357	789.4	3.66	1762	**675.2**	85.5%
100.0%	**16**	**181.1**	**4.357**	**885.2**	**4.11**	**1739**	**750.0**	**84.7%**
100.1%	17	181.1	4.887	886.4	4.12	1739	**750.9**	84.7%
109.7%	18	181.1	5.36	970.8	4.56	1723	**822.6**	84.7%





Customer is responsable in determining that MaxMotion product will fit/perform suitably in the intended application

Version: 1NIN

Revised: April 2020

HP	RPM	Voltage	Amps	Const.	Frame	Insul.	Torque	P. Code	Wgt lbs	Rated
1	1750	180Vdc	6,4	TEFC	56C	Class H	36 in/lbs	K (SCR)	33	IP45

MM1018FC

DC PERMANENT MAGNET MOTOR

HEAVY GAUGE ROLLED STEEL CONSTRUCTION | TENV TOTALLY NON-VENTILATED & TEFC TOTALLY ENCLOSED FAN COOLED SCR RATED, 90VDC, 180VDC

MaxMotion

Applications:

For use with SCR rated single phase DC variable speed controls used in conveyors, pumps, packaging equipment and many other applications where economical precise speed control is required.

Features:

Design - SCR Rated

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 - 90V & 180V

Bearings - Permanently Lubricated High quality Double Shielded Ball Bearings

Brushes - Oversized for Extra Long Life, Easy brush access with Unique brush Holder

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

Duty - Continuous

Warranty - 18 Months

MEP 1982

DC PERMANENT MAGNET MOTOR

HEAVY GAUGE ROLLED STEEL CONSTRUCTION | TENV TOTALLY NON-VENTILATED & TEFC TOTALLY ENCLOSED FAN COOLED SCR RATED, 90VDC, 180VDC

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	1773	90	56C	MM2590NV	ROLLED STEEL	TENV	76.70%	2.05	6203	6203	21	8
	1773	90	56C	MM2590FC	ROLLED STEEL	TEFC	76.70%	2.05	6203	6203	21	9.6
	1717	180	56C	MM2518NV	ROLLED STEEL	TENV	71.90%	2.55	6203	6203	21	8
	1717	180	56C	MM2518FC	ROLLED STEEL	TEFC	71.90%	2.55	6203	6203	21	9.6
0.33	1691	90	56C	MM3390NV	ROLLED STEEL	TENV	77.70%	5.1	6203	6203	23	8
	1691	90	56C	MM3390FC	ROLLED STEEL	TEFC	77.70%	5.1	6203	6203	23	9.6
	1687	180	56C	MM3318NV	ROLLED STEEL	TENV	69.90%	2.55	6203	6203	23	8
	1687	180	56C	MM3318FC	ROLLED STEEL	TEFC	69.90%	2.55	6203	6203	23	9.6
0.5	1702	90	56C	MM5090NV	ROLLED STEEL	TENV	81.90%	6.28	6203	6203	25	8.88
	1702	90	56C	MM5090FC	ROLLED STEEL	TEFC	81.90%	6.28	6203	6203	25	10.4
	1752	180	56C	MM5018NV	ROLLED STEEL	TENV	81.40%	3.14	6203	6203	25	8.88
	1752	180	56C	MM5018FC	ROLLED STEEL	TEFC	81.40%	3.14	6203	6203	25	10.4
0.75	1651	90	56C	MM7590FC	ROLLED STEEL	TEFC	83.90%	9.82	6203	6203	30	11.45
	1675	180	56C	MM7518FC	ROLLED STEEL	TEFC	84.00%	4.9	6203	6203	30	11.45
1	1739	90	56C	MM1090FC	ROLLED STEEL	TEFC	84.00%	12.7	6203	6203	33	12.24
	1739	180	56C	MM1018FC	ROLLED STEEL	TEFC	84.70%	6.4	6203	6203	33	12.24
1.5	1793	180	56C	MM1518FC-56C	ROLLED STEEL	TEFC	83.30%	7.86	6203	6203	45	14.39
	1793	180	145TC	MM1518FC	ROLLED STEEL	TEFC	83.30%	7.86	6305	6305	45	13.8
2	1751	180	56C	MM2018FC-56C	ROLLED STEEL	TEFC	82.80%	10.4	6305	6305	55	14.75
	1751	180	145TC	MM2018FC	ROLLED STEEL	TEFC	82.80%	10.77	6305	6305	55	14.8
3	1814	180	145TC	MM3018FC	ROLLED STEEL	TEFC	82.50%	18.6	6305	6305	70	16.9