

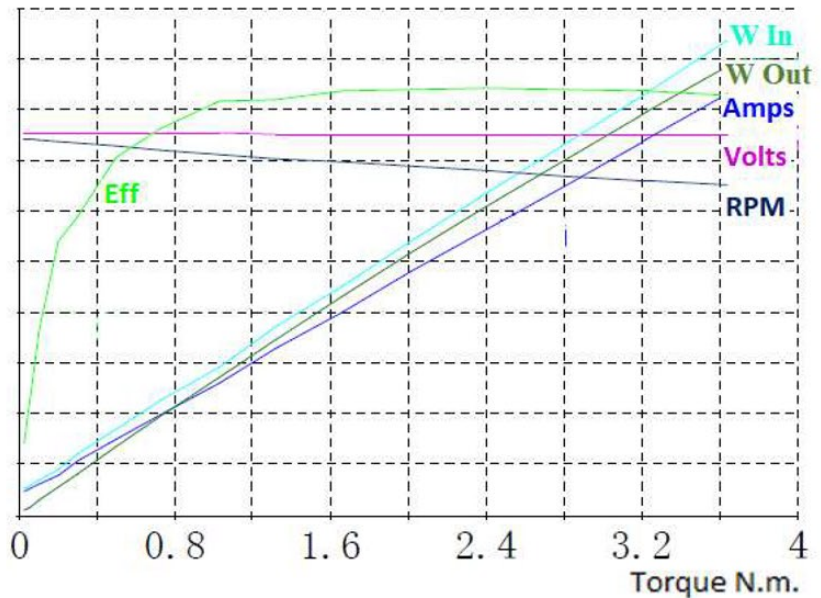
Model: MM7518FC

Description: MaxMotion 0.75HP, 1750RPM, 180VDC, TEFC, 56C

Tester: 01

Test Date: 2019.04.04

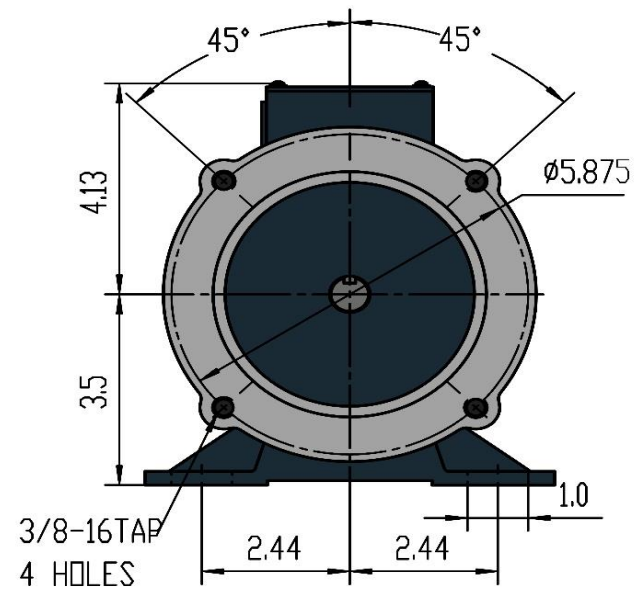
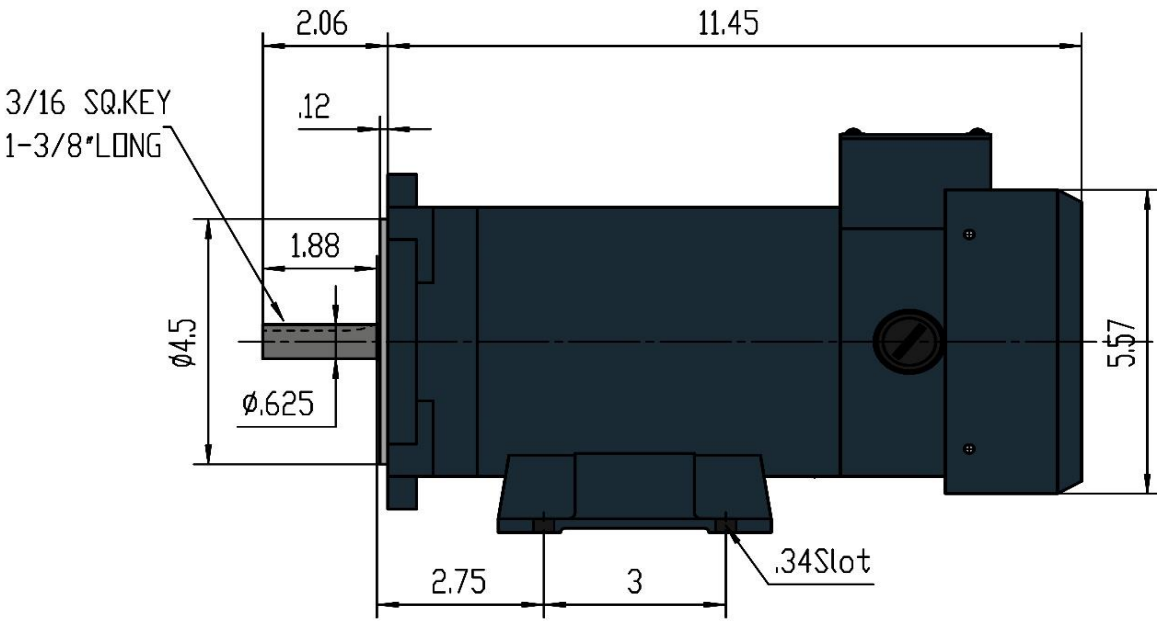
V	A	W In	RPM	W out	Eff.%
250	5	800	2500	700	90
225	4.5	720	2250	630	81
200	4	640	2000	560	72
175	3.5	560	1750	490	63
150	3	480	1500	420	54
125	2.5	400	1250	350	45
100	2	320	1000	280	36
75	1.5	240	750	210	27
50	1	160	500	140	18
25	0.5	80	250	70	9
0	0	0	0	0	0



Measured Points	V	A	Input Watts	N.m.	RPM	Output Watts	%
No Load	181	0.288	52.16	0.05	1827	9.564	18.3%
Rated	180.8	3.622	654.8	3.14	1675	550	84.0%
Efficiency Max.	180.8	3.038	549.4	2.61	1702	465.5	84.7%
Max. Kw Output	180.8	4.061	734.2	3.54	1654	613	83.5%
Max. Torq. Output	180.8	4.061	734.2	3.54	1654	613	83.5%
End	180.8	4.061	734.2	3.54	1654	613	83.5%

Load	Measure	V	A	Input Watts	N.m.	RPM	Output Watts	Eff %
1.7%	1	181	0.288	52.16	0.05	1827	<b>9.564</b>	18.3%
2.2%	2	181	0.298	53.99	0.06	1826	<b>11.850</b>	22.0%
2.2%	3	181	0.311	56.29	0.06	1826	<b>12.24</b>	21.7%
4.0%	4	181	0.357	64.68	0.12	1824	<b>22.15</b>	34.3%
7.1%	5	181	0.453	81.98	0.21	1820	<b>39.25</b>	47.9%
12.2%	6	181	0.609	110.2	0.35	1913	<b>67.2</b>	61.0%
19.0%	7	181	0.821	148.6	0.55	1803	<b>104.6</b>	70.4%
27.4%	8	180.9	1.09	197.3	0.80	1791	<b>150.8</b>	76.4%
37.8%	9	180.9	1.419	256.8	1.12	1775	<b>207.8</b>	80.9%
48.7%	10	180.9	1.787	323.3	1.45	1759	<b>267.8</b>	82.8%
60.6%	11	180.9	2.194	396.9	1.83	1740	<b>333.4</b>	84.0%
72.8%	12	180.8	2.624	474.6	2.22	1722	<b>400.6</b>	84.4%
84.6%	13	180.8	3.038	549.4	2.61	1702	<b>465.5</b>	84.7%
97.9%	14	180.8	3.54	640.0	3.06	1679	<b>538.3</b>	84.1%
100.0%	15	180.8	3.622	654.8	3.14	1675	<b>550.0</b>	84.0%
111.5%	16	180.8	4.061	734.2	3.54	1654	<b>613.0</b>	83.5%

# MaxMotion



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

Version: 1NIN

Revised: April 2020

## MM7518FC

HP	RPM	Voltage	Amps	Const.	Frame	Insul.	Torque	P. Code	Wgt lbs	Rated
0,75	1750	180Vdc	4,9	TEFC	56C	Class H	27 in/lbs	K (SCR)	30	IP45

# 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

# 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

