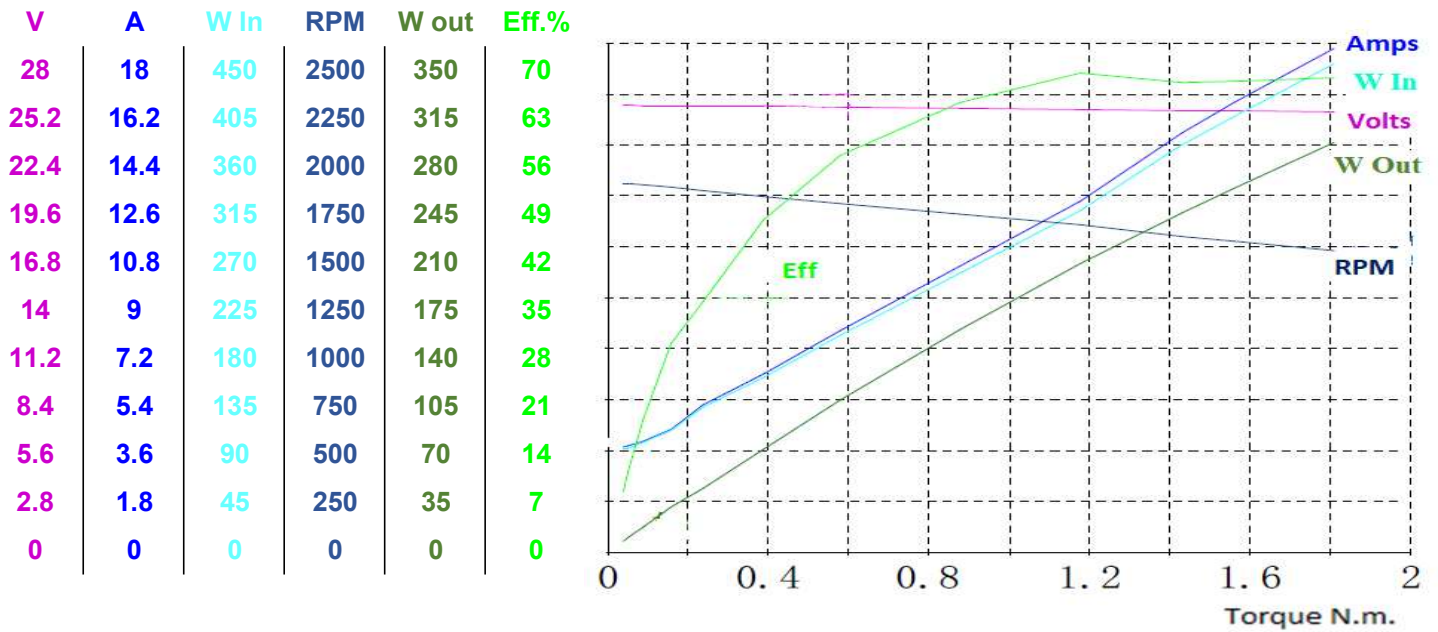


Model: MM3324FC/NV

Description: MaxMotion 0.33HP, 1750RPM, 24VDC, TEFC/NV, 56C

Tester: 01

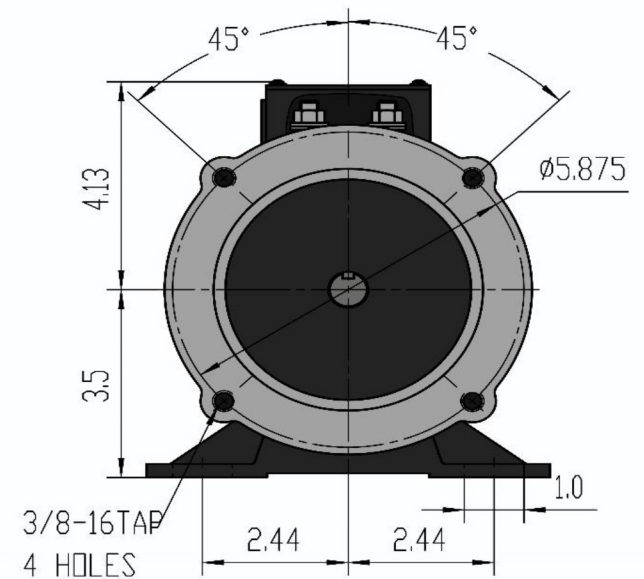
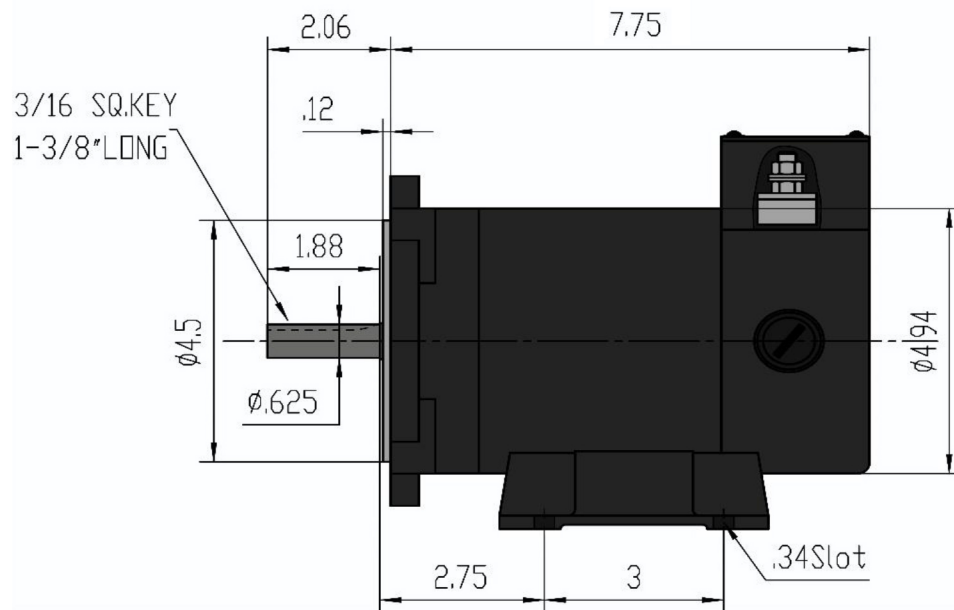
Test Date: 2019.03.07



| Measured Points   | V     | A     | Input Watts | N.m. | RPM   | Output Watts | %     |
|-------------------|-------|-------|-------------|------|-------|--------------|-------|
| No Load           | 24.58 | 3.728 | 91.62       | 0.04 | 1809  | 7.576        | 8.3%  |
| Rated             | 24.27 | 15.88 | 385.4       | 1.56 | 1527  | 250          | 64.8% |
| Efficiency Max.   | 24.35 | 12.39 | 301.6       | 1.18 | 1607  | 198.5        | 65.8% |
| Max. Kw Output    | 24.22 | 17.81 | 431.5       | 1.81 | 14.83 | 281.3        | 65.2% |
| Max. Torq. Output | 24.22 | 17.81 | 431.5       | 1.81 | 14.83 | 281.3        | 65.2% |
| End               | 24.22 | 17.81 | 431.5       | 1.81 | 14.83 | 281.3        | 65.2% |

| Load          | Measure   | V            | A            | Input Watts  | N.m.        | RPM         | Output Watts | Eff %        |
|---------------|-----------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|
| 3.0%          | 1         | 24.58        | 3.728        | 91.62        | 0.04        | 1809        | <b>7.58</b>  | 8.3%         |
| 4.1%          | 2         | 24.58        | 3.759        | 92.39        | 0.05        | 1808        | <b>10.22</b> | 11.1%        |
| 7.1%          | 3         | 24.57        | 3.939        | 96.79        | 0.09        | 1804        | <b>17.75</b> | 18.3%        |
| 12.3%         | 4         | 24.56        | 4.363        | 107.2        | 0.16        | 1793        | <b>30.79</b> | 28.7%        |
| 17.7%         | 5         | 24.53        | 5.23         | 128.3        | 0.24        | 1774        | <b>44.21</b> | 34.5%        |
| 28.2%         | 6         | 24.51        | 6.306        | 154.5        | 0.39        | 1746        | <b>70.56</b> | 45.7%        |
| 41.7%         | 7         | 24.47        | 7.822        | 191.4        | 0.58        | 1711        | <b>104.3</b> | 54.5%        |
| 61.2%         | 8         | 24.4         | 10.12        | 247.0        | 0.88        | 1660        | <b>152.9</b> | 61.9%        |
| 79.4%         | 9         | 24.35        | 12.39        | 301.6        | 1.18        | 1607        | <b>198.5</b> | 65.8%        |
| 93.2%         | 10        | 24.29        | 14.83        | 360.2        | 1.43        | 1551        | <b>232.9</b> | 64.6%        |
| <b>100.0%</b> | <b>11</b> | <b>24.27</b> | <b>15.88</b> | <b>385.4</b> | <b>1.56</b> | <b>1527</b> | <b>250.0</b> | <b>64.8%</b> |
| 112.5%        | 12        | 24.22        | 17.81        | 431.5        | 1.81        | 1483        | <b>281.3</b> | 65.2%        |

# MaxMotion



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

Version: 2NIN

Revised: March 2024

| HP   | RPM  | Voltage | Amps | Const. | Frame | Insul.  | Torque      | P. Code | Wgt lbs | Rated |
|------|------|---------|------|--------|-------|---------|-------------|---------|---------|-------|
| 0,33 | 1750 | 24Vdc   | 19,1 | TENV   | 56C   | Class H | 11.9 in/lbs | K (SCR) | 23      | IP55  |

**MM3324NV**

# 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

# 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



| 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                 |

