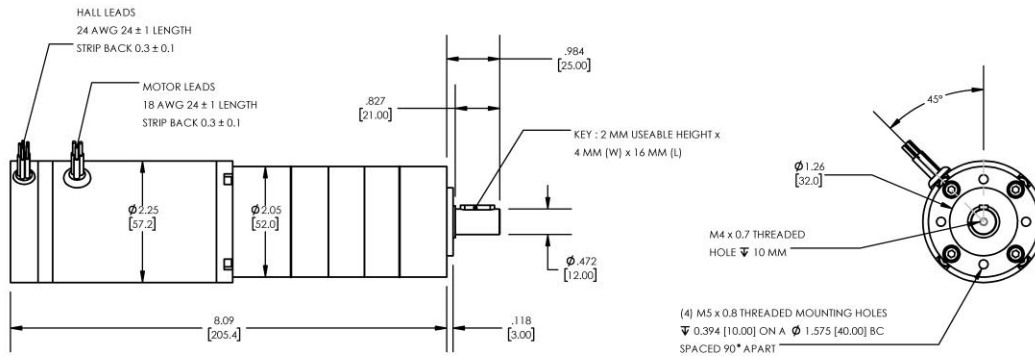
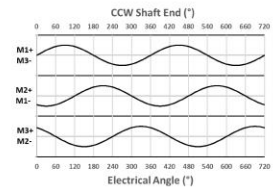


**Model Number:****MMP BL58-412F-48V GP52-308**

| MOTOR LEADS |       |
|-------------|-------|
| LEAD        | COLOR |
| M1          | RED   |
| M2          | BLACK |
| M3          | WHITE |

| HALL LEADS |        |
|------------|--------|
| LEAD       | COLOR  |
| H1         | BLUE   |
| H2         | GREY   |
| H3         | VIOLET |
| VCC        | RED    |
| GND        | BLACK  |



DIMENSIONS ARE INCHES [MM] UNLESS OTHERWISE STATED

| PLANETARY GEARMOTOR OUTPUT PARAMETERS:     | VALUE      | UNITS       | TOLERANCE |
|--------------------------------------------|------------|-------------|-----------|
| Gearhead Ratio (exact)                     | 307.54 : 1 |             |           |
| Gearhead Shaft Output Speed (at full-load) | 18         | RPM         | MAX       |
| Gearmotor Rated Continuous Torque          | 443        | In-Lbs      | MAX       |
| Gearmotor Rated Peak Torque                | 443++      | In-Lbs      | ----      |
| Gearhead Standard Backlash                 | 48         | Arc Minutes | MAX       |
| Gearhead Efficiency                        | 70%        | ----        | ----      |
| Output Shaft Radial Load Capacity          | 102        | Lbs         | MAX       |
| Output Shaft Axial Load Capacity           | 34         | Lbs         | MAX       |
| Gearmotor Total Weight                     | 3.9        | Lbs         | MAX       |

**++ All Peak Torque values are dependent upon duty. Contact our sales office for details.**

| DC MOTOR PERFORMANCE PARAMETERS: | VALUE | UNITS     | TOLERANCE |
|----------------------------------|-------|-----------|-----------|
| Rated DC Voltage                 | 48    | DC VOLTS  | ----      |
| Rated Continuous Current         | 3.62  | AMPERES   | ----      |
| No-Load Speed                    | 6234  | RPM       | MAX       |
| Rated Speed                      | 5616  | RPM       | +/- 15%   |
| Rated Continuous Power Out       | 137   | WATTS     | +/- 15%   |
| Rated Continuous Torque          | 33    | OZ-IN     | ----      |
| Peak Torque (motor only)         | 253   | OZ-IN     | ----      |
| No-Load Current                  | 0.45  | AMPERES   | MAX       |
| Back EMF Constant (Ke)           | 7.7   | V/KRPM    | +/- 10%   |
| Torque Constant (Kt)             | 10.4  | OZ-IN/AMP | +/- 10%   |
| DC Armature Resistance           | 1.32  | OHMS      | +/- 15%   |
| Armature Inductance              | 0.93  | mH        | +/- 15%   |
| Armature temperature             | 155   | DEG. C    | MAX       |

**NOTES:**

- ENCODER & BRAKE OPTIONS AVAILABLE – [FOLLOW THIS LINK FOR DETAILS](#)
- NEMA MOUNTING FLANGE OPTION AVAILABLE – [FOLLOW THIS LINK FOR DETAILS](#)

**MIDWEST MOTION PRODUCTS****DESIGN, MANUFACTURING & DISTRIBUTION - MOTION CONTROL EQUIPMENT**[www.midwestmotion.com](http://www.midwestmotion.com)email: [sales@midwestmotion.com](mailto:sales@midwestmotion.com)