



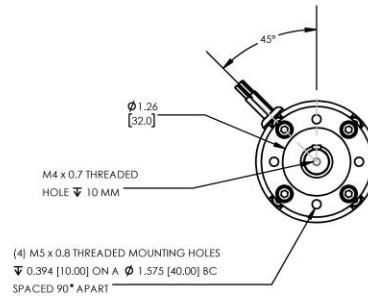
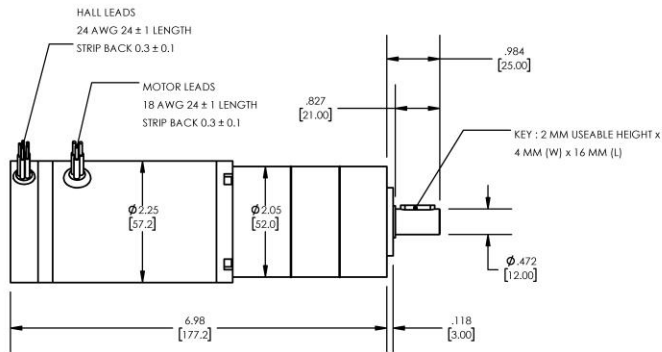
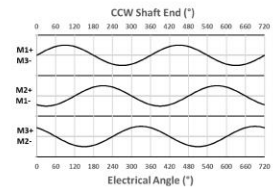
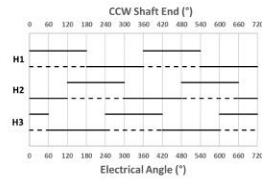
# REVERSIBLE DC GEARMOTOR

Model Number:

**MMP BL58-412L-120V GP52-03.7**

| 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)                     | 3.70 : 1 |             |           |
| Gearhead Shaft Output Speed (at full-load) | 902      | RPM         | MAX       |
| Gearmotor Rated Continuous Torque          | 13       | In-Lbs      | MAX       |
| Gearmotor Rated Peak Torque                | 30++     | In-Lbs      | ----      |
| Gearhead Standard Backlash                 | 42       | Arc Minutes | MAX       |
| Gearhead Efficiency                        | 80%      | ----        | ----      |
| Output Shaft Radial Load Capacity          | 45       | Lbs         | MAX       |
| Output Shaft Axial Load Capacity           | 14       | Lbs         | MAX       |
| Gearmotor Total Weight                     | 3.1      | 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                 | 120   | DC VOLTS  | ----      |
| Rated Continuous Current         | 2.1   | AMPERES   | ----      |
| No-Load Speed                    | 4743  | RPM       | MAX       |
| Rated Speed                      | 3339  | RPM       | +/- 15%   |
| Rated Continuous Power Out       | 169   | WATTS     | +/- 15%   |
| Rated Continuous Torque          | 68    | OZ-IN     | ----      |
| Peak Torque (motor only)         | 164   | OZ-IN     | ----      |
| No-Load Current                  | 0.14  | AMPERES   | MAX       |
| Back EMF Constant (Ke)           | 25.3  | V/KRPM    | +/- 10%   |
| Torque Constant (Kt)             | 34.2  | OZ-IN/AMP | +/- 10%   |
| DC Armature Resistance           | 16.65 | OHMS      | +/- 15%   |
| Armature Inductance              | 9.99  | 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, INC**

**DESIGN, MANUFACTURING & DISTRIBUTION - MOTION CONTROL EQUIPMENT**

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