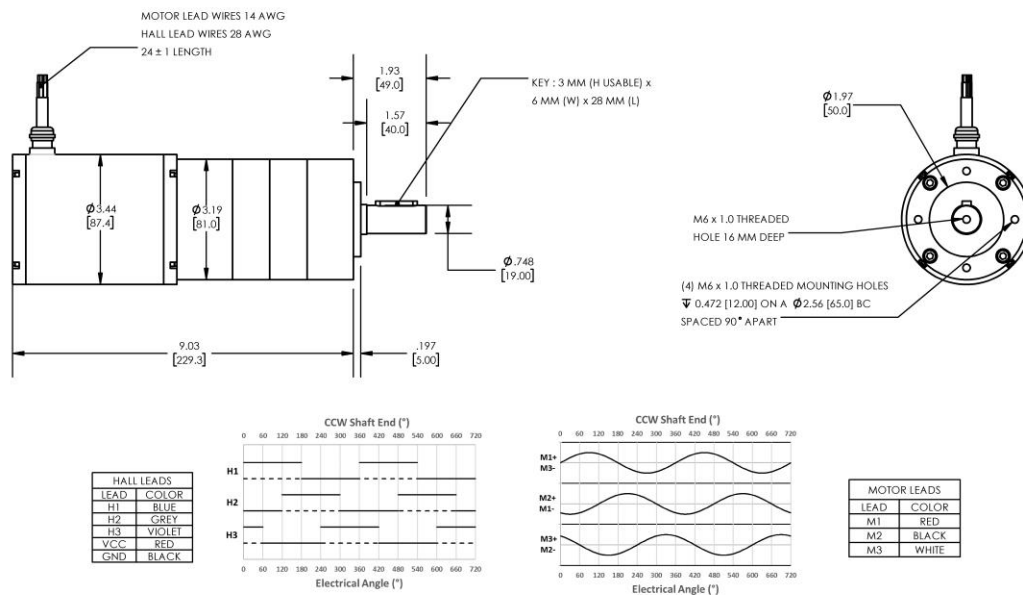


**Model Number:****MMP BL87-435F-120V GP81-022**

DIMENSIONS ARE INCHES [MM] UNLESS OTHERWISE STATED

| PLANETARY GEARMOTOR OUTPUT PARAMETERS:     | VALUE     | UNITS       | TOLERANCE |
|--------------------------------------------|-----------|-------------|-----------|
| Gearhead Ratio (exact)                     | 22.20 : 1 |             |           |
| Gearhead Shaft Output Speed (at full-load) | 214       | RPM         | MAX       |
| Gearmotor Rated Continuous Torque          | 201       | In-Lbs      | MAX       |
| Gearmotor Rated Peak Torque                | 764++     | In-Lbs      | -----     |
| Gearhead Standard Backlash                 | 33        | Arc Minutes | MAX       |
| Gearhead Efficiency                        | 75%       | -----       | -----     |
| Output Shaft Radial Load Capacity          | 135       | Lbs         | MAX       |
| Output Shaft Axial Load Capacity           | 27        | Lbs         | MAX       |
| Gearmotor Total Weight                     | 12        | 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         | 7.5   | AMPERES   | -----     |
| No-Load Speed                    | 5854  | RPM       | MAX       |
| Rated Speed                      | 4748  | RPM       | +/- 15%   |
| Rated Continuous Power Out       | 677   | WATTS     | +/- 15%   |
| Rated Continuous Torque          | 193   | OZ-IN     | -----     |
| Peak Torque (motor only)         | 734   | OZ-IN     | -----     |
| No-Load Current                  | 0.55  | AMPERES   | MAX       |
| Back EMF Constant (Ke)           | 20.5  | V/KRPM    | +/- 10%   |
| Torque Constant (Kt)             | 27.7  | OZ-IN/AMP | +/- 10%   |
| DC Armature Resistance           | 3.02  | OHMS      | +/- 15%   |
| Armature Inductance              | 1.80  | 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**[www.midwestmotion.com](http://www.midwestmotion.com)email: [sales@midwestmotion.com](mailto:sales@midwestmotion.com)