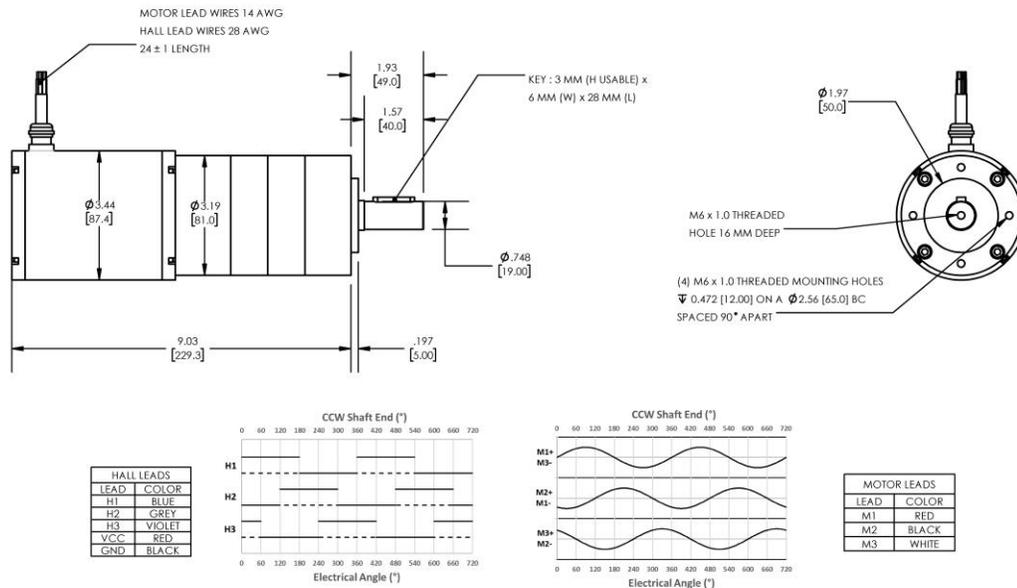


**Model Number:**
**MMP BL87-435I-120V GP81-022**


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) | 123          | RPM         | MAX       |
| Gearmotor Rated Continuous Torque          | 179          | In-Lbs      | MAX       |
| Gearmotor Rated Peak Torque                | <b>496++</b> | 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         | 4.3   | AMPERES   | ----      |
| No-Load Speed                    | 3692  | RPM       | MAX       |
| Rated Speed                      | 2724  | RPM       | +/- 15%   |
| Rated Continuous Power Out       | 347   | WATTS     | +/- 15%   |
| Rated Continuous Torque          | 172   | OZ-IN     | ----      |
| Peak Torque (motor only)         | 476   | OZ-IN     | ----      |
| No-Load Current                  | 0.35  | AMPERES   | MAX       |
| Back EMF Constant (Ke)           | 32.5  | V/KRPM    | +/- 10%   |
| Torque Constant (Kt)             | 44.0  | OZ-IN/AMP | +/- 10%   |
| DC Armature Resistance           | 7.38  | OHMS      | +/- 15%   |
| Armature Inductance              | 4.60  | 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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