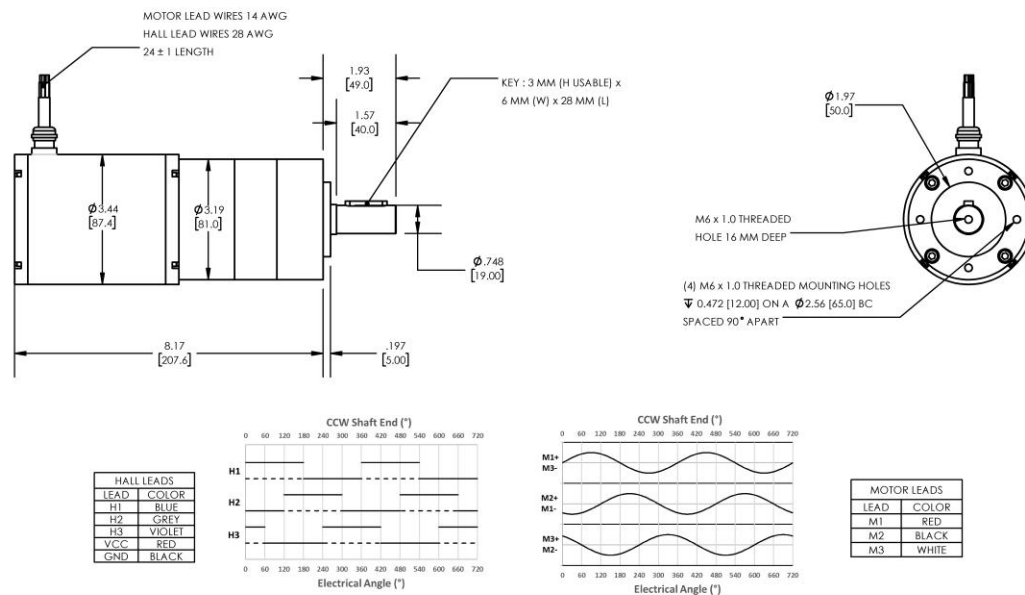




## Model Number:

# MMP BL87-435F-90V GP81-03.7



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) | 888      | RPM         | MAX       |
| Gearmotor Rated Continuous Torque          | 36       | In-Lbs      | MAX       |
| Gearmotor Rated Peak Torque                | 102++    | In-Lbs      | ----      |
| Gearhead Standard Backlash                 | 30       | Arc Minutes | MAX       |
| Gearhead Efficiency                        | 80%      | ----        | ----      |
| Output Shaft Radial Load Capacity          | 90       | Lbs         | MAX       |
| Output Shaft Axial Load Capacity           | 18       | Lbs         | MAX       |
| Gearmotor Total Weight                     | 11       | 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                 | 90    | DC VOLTS  | ----      |
| Rated Continuous Current         | 7.50  | AMPERES   | ----      |
| No-Load Speed                    | 4390  | RPM       | MAX       |
| Rated Speed                      | 3284  | RPM       | +/- 15%   |
| Rated Continuous Power Out       | 468   | WATTS     | +/- 15%   |
| Rated Continuous Torque          | 193   | OZ-IN     | ----      |
| Peak Torque (motor only)         | 550   | 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

## DESIGN, MANUFACTURING & DISTRIBUTION - MOTION CONTROL EQUIPMENT

[www.midwestmotion.com](http://www.midwestmotion.com)

email: [sales@midwestmotion.com](mailto:sales@midwestmotion.com)