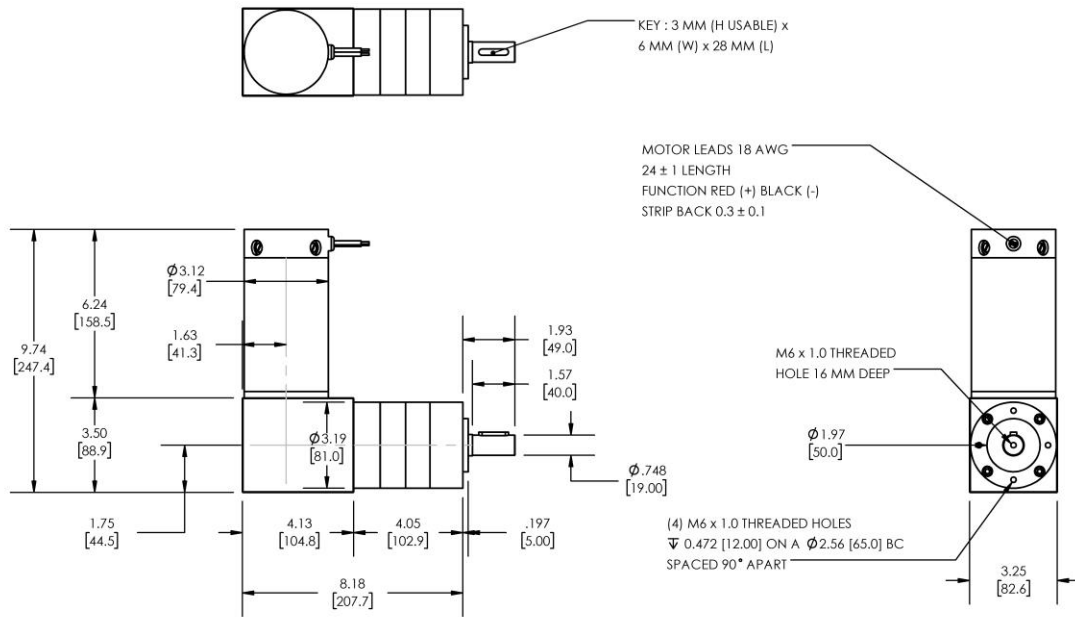




# REVERSIBLE BRUSHED DC RIGHT-ANGLED GEARMOTOR

**Model Number:**

**MMP D33-655H-60V GRA81-169**



DIMENSIONS ARE INCHES [MM] UNLESS OTHERWISE STATED

| PLANETARY GEARMOTOR OUTPUT PARAMETERS:     | VALUE      | UNITS       | TOLERANCE |
|--------------------------------------------|------------|-------------|-----------|
| Gearhead Ratio (exact)                     | 168.84 : 1 |             |           |
| Gearhead Shaft Output Speed (at full-load) | 13         | RPM         | MAX       |
| Gearmotor Rated Continuous Torque          | 1108       | In-Lbs      | MAX       |
| Gearmotor Rated Peak Torque                | 2124++     | In-Lbs      | ----      |
| Gearhead Standard Backlash                 | 36         | Arc Minutes | MAX       |
| Gearhead Efficiency                        | 70%        | ----        | ----      |
| Output Shaft Radial Load Capacity          | 225        | Lbs         | MAX       |
| Output Shaft Axial Load Capacity           | 45         | Lbs         | MAX       |
| Gearmotor Total Weight                     | 18         | 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                 | 60    | DC VOLTS  | ----      |
| Rated Continuous Current         | 5.3   | AMPERES   | ----      |
| No-Load Speed                    | 2691  | RPM       | MAX       |
| Rated Speed                      | 2242  | RPM       | +/- 15%   |
| Rated Continuous Power Out       | 248   | WATTS     | +/- 15%   |
| Rated Continuous Torque          | 150   | OZ-IN     | ----      |
| Peak Torque (motor only)         | 642   | OZ-IN     | ----      |
| No-Load Current                  | 0.36  | AMPERES   | MAX       |
| Back EMF Constant (Ke)           | 22.3  | V/KRPM    | +/- 10%   |
| Torque Constant (Kt)             | 30.2  | OZ-IN/AMP | +/- 10%   |
| DC Armature Resistance           | 1.88  | OHMS      | +/- 15%   |
| Armature Inductance              | 1.34  | 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)