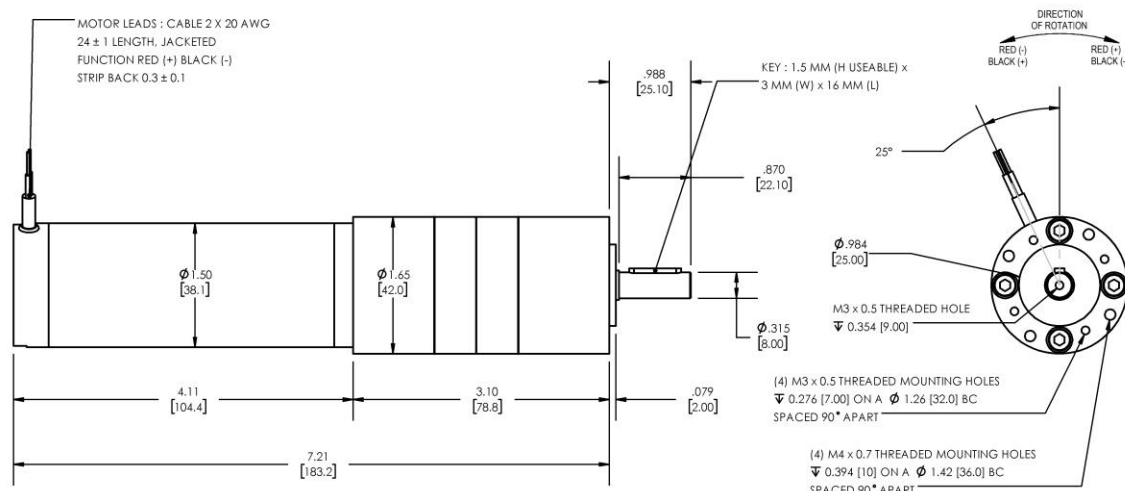




**BRUSHED DC GEARMOTOR**  
• REVERSIBLE, PLANETARY GEARING

**Model Number:**

**MMP S17-400B-12V GP42-029**



DIMENSIONS ARE INCHES [MM] UNLESS OTHERWISE STATED

| PLANETARY GEARMOTOR OUTPUT PARAMETERS:   | VALUE     | UNITS       | TOLERANCE |
|------------------------------------------|-----------|-------------|-----------|
| Gearhead Ratio (exact)                   | 28.93 : 1 |             |           |
| Gearmotor Output Speed (at Cont. Torque) | 142       | RPM         | +/- 15%   |
| Gearmotor Rated Continuous Torque        | 8.6       | In-Lbs      | MAX       |
| Gearmotor Peak Torque Capacity           | 67++      | In-Lbs      | MAX       |
| Gearhead Standard Backlash               | 57        | Arc Minutes | MAX       |
| Gearhead Efficiency                      | 75%       | -----       | -----     |
| Output Shaft Radial Load Capacity        | 52        | Lbs         | MAX       |
| Output Shaft Axial Load Capacity         | 18        | Lbs         | MAX       |
| Gearmotor Total Weight                   | 2.4       | Lbs         | MAX       |

++ All Peak Torque values are dependent upon duty. Contact our sales office for details.

| DC MOTOR PERFORMANCE PARAMETERS: | VALUE | UNITS     | TOLERANCE |
|----------------------------------|-------|-----------|-----------|
| Input DC Voltage                 | 12    | DC VOLTS  | -----     |
| No-Load Current                  | 0.70  | AMPERES   | MAX       |
| No-Load Speed                    | 4247  | RPM       | +/- 15%   |
| Rated Continuous Torque          | 6.4   | OZ-IN     | MAX       |
| Rated Continuous Current         | 2.4   | AMPERES   | MAX       |
| Rated Speed (at Cont. Torque)    | 4101  | RPM       | +/- 15%   |
| Rated Continuous Power Out       | 19    | WATTS     | +/- 15%   |
| Peak Motor Torque                | 50    | OZ-IN     | MAX       |
| Peak Motor Current               | 14.0  | AMPERES   | MAX       |
| Back EMF Constant (Ke)           | 2.8   | V/KRPM    | +/- 10%   |
| Torque Constant (Kt)             | 3.7   | OZ-IN/AMP | +/- 10%   |
| DC Armature Resistance           | 0.40  | OHMS      | +/- 15%   |
| Armature Inductance              | 0.11  | mH        | +/- 15%   |
| Number of Motor Poles            | 4     | (-)       | -----     |
| Armature temperature             | 155   | DEG. C    | MAX       |

**NOTES:**

1. Rated speeds may drop as the motor temperature increases. Values are stated with the motor at 25 °C.
2. All Peak Torque values are dependent upon duty. Contact our sales office for details.

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**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)