

**Model Number:**

## MMP BL44-297E-48V GP42-100



DIMENSIONS ARE INCHES [MM] UNLESS OTHERWISE STATED

| PLANETARY GEARMOTOR OUTPUT PARAMETERS:     | VALUE        | UNITS       | TOLERANCE |
|--|--------------|-------------|-----------|
| Gearhead Ratio (exact)                     | 99.50 : 1    |             |           |
| Gearhead Shaft Output Speed (at full-load) | 45           | RPM         | MAX       |
| Gearmotor Rated Continuous Torque          | 87           | In-Lbs      | MAX       |
| Gearmotor Rated Peak Torque                | <b>266++</b> | In-Lbs      | ----      |
| Gearhead Standard Backlash                 | 60           | Arc Minutes | MAX       |
| Gearhead Efficiency                        | 70%          | ----        | ----      |
| Output Shaft Radial Load Capacity          | 68           | Lbs         | MAX       |
| Output Shaft Axial Load Capacity           | 25           | Lbs         | MAX       |
| Gearmotor Total Weight                     | 2.2          | 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                 | 48    | DC VOLTS  | ----      |
| Rated Continuous Current         | 1.7   | AMPERES   | ----      |
| No-Load Speed                    | 5120  | RPM       | +/- 15%   |
| Rated Speed                      | 4483  | RPM       | +/- 15%   |
| Rated Continuous Power Out       | 66    | WATTS     | +/- 15%   |
| Rated Continuous Torque          | 20    | OZ-IN     | ----      |
| Peak Torque (motor only)         | 108   | OZ-IN     | ----      |
| No-Load Current                  | 0.10  | AMPERES   | 10%       |
| Back EMF Constant (Ke)           | 9.3   | V/KRPM    | +/- 10%   |
| Torque Constant (Kt)             | 12.5  | OZ-IN/AMP | +/- 10%   |
| DC Armature Resistance           | 3.70  | OHMS      | +/- 15%   |
| Armature Inductance              | 2.67  | 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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