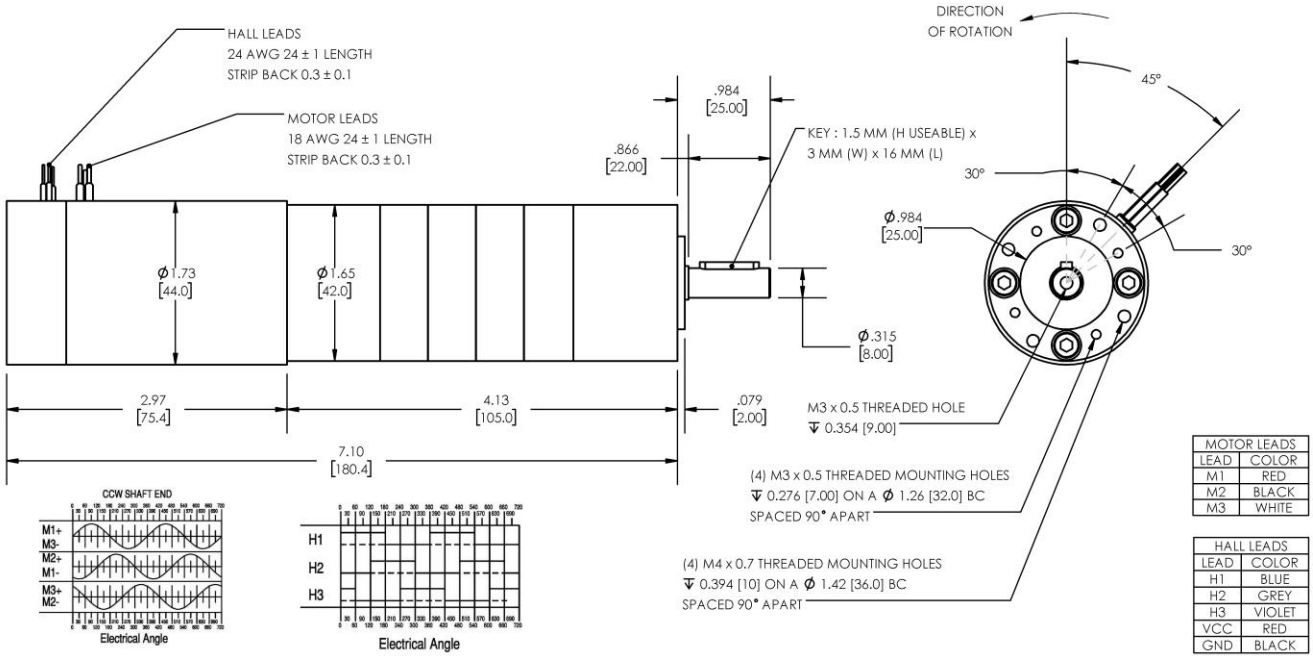
# REVERSIBLE BRUSHLESS DC PLANETARY GEARMOTOR

**Model Number:**

# MMP BL44-297B-24V GP42-1594




DIMENSIONS ARE INCHES [MM] UNLESS OTHERWISE STATED

| PLANETARY GEARMOTOR OUTPUT PARAMETERS: | VALUE | UNITS | TOLERANCE |
|---|---|---|---|
| Gearhead Ratio (exact) | 1593.65 : 1 | | |
| Gearhead Shaft Output Speed (at full-load) | 3.4 | RPM | MAX |
| Gearmotor Rated Continuous Torque | 266 | In-Lbs | MAX |
| Gearmotor Rated Peak Torque | 266++ | In-Lbs | ----- |
| Gearhead Standard Backlash | 63 | Arc Minutes | MAX |
| Gearhead Efficiency | 65% | ----- | ----- |
| Output Shaft Radial Load Capacity | 68 | Lbs | MAX |
| Output Shaft Axial Load Capacity | 25 | Lbs | MAX |
| Gearmotor Total Weight | 2.5 | 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 | 24 | DC VOLTS | ----- |
| Rated Continuous Current | 0.93 | AMPERES | ----- |
| No-Load Speed | 5534 | RPM | +/- 15% |
| Rated Speed | 5387 | RPM | +/- 15% |
| Rated Continuous Power Out | 16 | WATTS | +/- 15% |
| Rated Continuous Torque | 4.1 | OZ-IN | ----- |
| Peak Torque (motor only) | 103 | OZ-IN | ----- |
| No-Load Current | 0.22 | AMPERES | 10% |
| Back EMF Constant (Ke) | 4.3 | V/KRPM | +/- 10% |
| Torque Constant (Kt ) | 5.8 | OZ-IN/AMP | +/- 10% |
| DC Armature Resistance | 0.90 | OHMS | +/- 15% |
| Armature Inductance | 0.68 | 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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