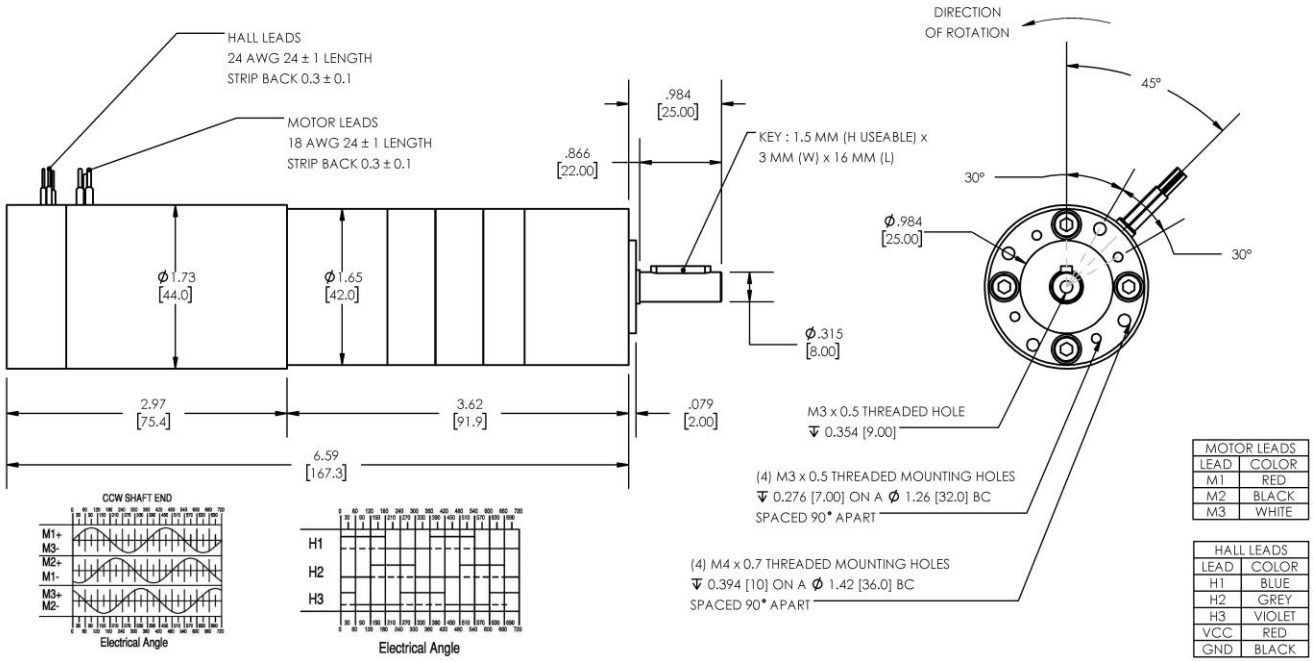
# REVERSIBLE BRUSHLESS DC PLANETARY GEARMOTOR

**Model Number:**

# MMP BL44-297F-48V GP42-169




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) | 22 | RPM | MAX |
| Gearmotor Rated Continuous Torque | 148 | In-Lbs | MAX |
| Gearmotor Rated Peak Torque | 266++ | 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 | 1.5 | AMPERES | ----- |
| No-Load Speed | 4442 | RPM | +/- 15% |
| Rated Speed | 3772 | RPM | +/- 15% |
| Rated Continuous Power Out | 56 | WATTS | +/- 15% |
| Rated Continuous Torque | 20 | OZ-IN | ----- |
| Peak Torque (motor only) | 89 | OZ-IN | ----- |
| No-Load Current | 0.09 | AMPERES | 10% |
| Back EMF Constant (Ke) | 10.7 | V/KRPM | +/- 10% |
| Torque Constant (Kt ) | 14.5 | OZ-IN/AMP | +/- 10% |
| DC Armature Resistance | 5.20 | OHMS | +/- 15% |
| Armature Inductance | 4.10 | 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 email: sales@midwestmotion.com