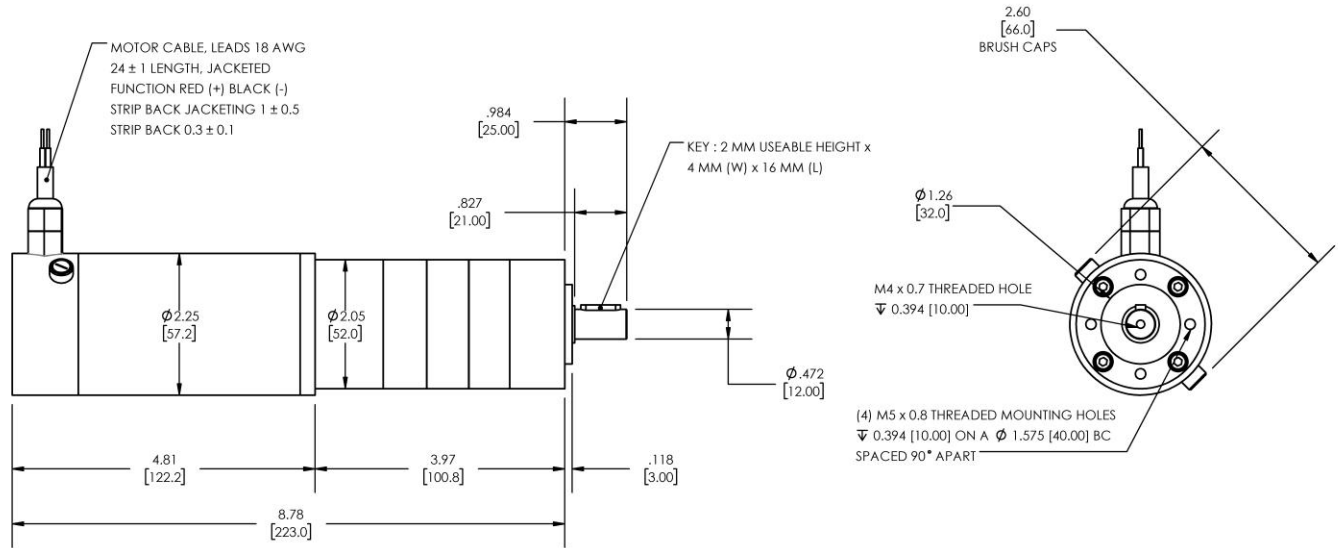


Model Number:
MMP D22-490H-90V GP52-169


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) | 29 | RPM | MAX |
| Gearmotor Rated Continuous Torque | 406 | In-Lbs | MAX |
| Gearmotor Rated Peak Torque | 443++ | In-Lbs | ---- |
| Gearhead Standard Backlash | 48 | Arc Minutes | MAX |
| Gearhead Efficiency | 70% | ---- | ---- |
| Output Shaft Radial Load Capacity | 102 | Lbs | MAX |
| Output Shaft Axial Load Capacity | 34 | Lbs | MAX |
| Gearmotor Total Weight | 5.1 | 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 | 90 | DC VOLTS | ---- |
| Rated Continuous Current | 2.74 | AMPERES | ---- |
| No-Load Speed | 5660 | RPM | MAX |
| Rated Speed | 4837 | RPM | +/- 15% |
| Rated Continuous Power Out | 195 | WATTS | +/- 15% |
| Rated Continuous Torque | 55 | OZ-IN | ---- |
| Peak Torque (motor only) | 270 | OZ-IN | ---- |
| No-Load Current | 0.20 | AMPERES | MAX |
| Back EMF Constant (Ke) | 15.9 | V/KRPM | +/- 10% |
| Torque Constant (Kt) | 21.5 | OZ-IN/AMP | +/- 10% |
| DC Armature Resistance | 4.77 | OHMS | +/- 15% |
| Armature Inductance | 7.20 | 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

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