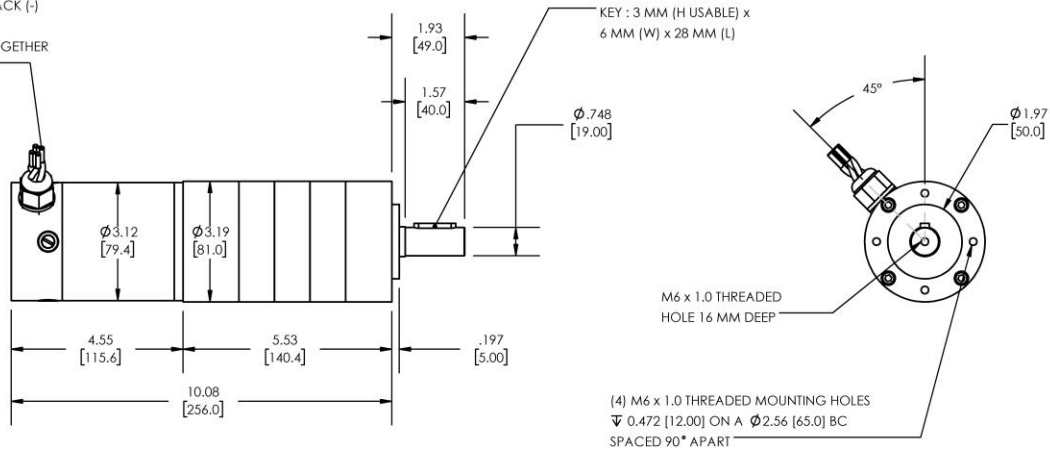


**Model Number:**
**MMP D33-455A-12V GP81-169**

MOTOR LEADS 12 AWG TEFLON  
 24 ± 1 LENGTH TWISTED PAIR  
 FUNCTION RED (+) BLACK (-)  
 STRIP BACK 1 ± 0.5  
 TWIST LIKE COLORS TOGETHER  
 AND SOLDER ENDS



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)	23	RPM	MAX
Gearmotor Rated Continuous Torque	613	In-Lbs	MAX
Gearmotor Rated Peak Torque	<b>2125++</b>	In-Lbs	----
Gearhead Standard Backlash	36	Arc Minutes	MAX
Gearhead Efficiency	70%	----	----
Output Shaft Radial Load Capacity	225	Lbs	MAX
Output Shaft Axial Load Capacity	45	Lbs	MAX
Gearmotor Total Weight	13	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	12	DC VOLTS	----
Rated Continuous Current	26.0	AMPERES	----
No-Load Speed	4615	RPM	MAX
Rated Speed	3813	RPM	+/- 15%
Rated Continuous Power Out	233	WATTS	+/- 15%
Rated Continuous Torque	83	OZ-IN	----
Peak Torque (motor only)	351	OZ-IN	----
No-Load Current	2.53	AMPERES	MAX
Back EMF Constant (Ke)	2.6	V/KRPM	+/- 10%
Torque Constant (Kt)	3.5	OZ-IN/AMP	+/- 10%
DC Armature Resistance	0.08	OHMS	+/- 15%
Armature Inductance	0.05	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

**DESIGN, MANUFACTURING & DISTRIBUTION - MOTION CONTROL EQUIPMENT**

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