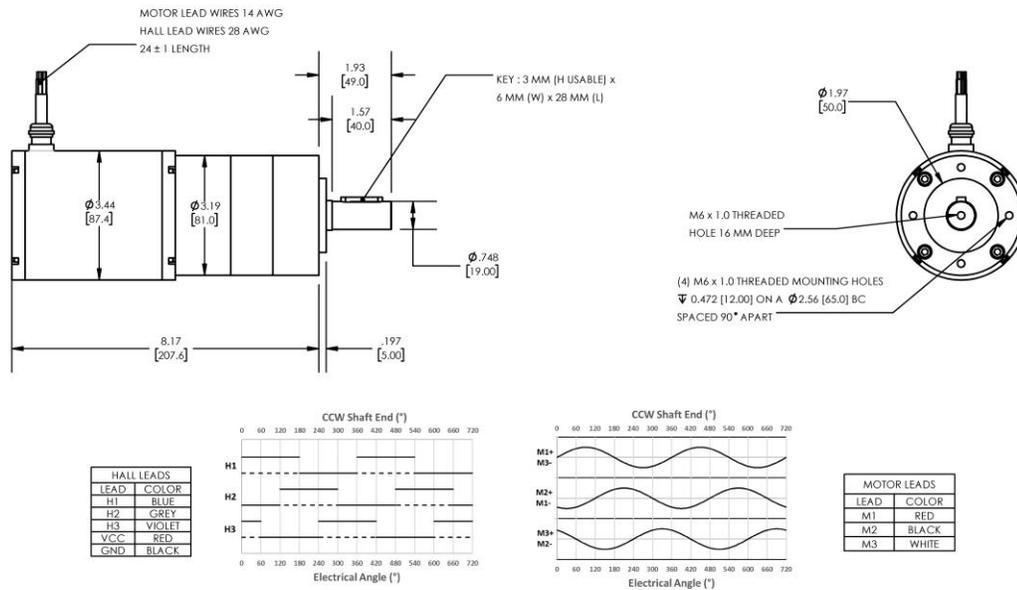


Model Number:
MMP BL87-435E-90V GP81-03.7


DIMENSIONS ARE INCHES [MM] UNLESS OTHERWISE STATED

PLANETARY GEARMOTOR OUTPUT PARAMETERS:	VALUE	UNITS	TOLERANCE
Gearhead Ratio (exact)	3.70 : 1		
Gearhead Shaft Output Speed (at full-load)	1191	RPM	MAX
Gearmotor Rated Continuous Torque	47	In-Lbs	MAX
Gearmotor Rated Peak Torque	167++	In-Lbs	----
Gearhead Standard Backlash	30	Arc Minutes	MAX
Gearhead Efficiency	80%	----	----
Output Shaft Radial Load Capacity	90	Lbs	MAX
Output Shaft Axial Load Capacity	18	Lbs	MAX
Gearmotor Total Weight	11	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	12.0	AMPERES	----
No-Load Speed	5488	RPM	MAX
Rated Speed	4407	RPM	+/- 15%
Rated Continuous Power Out	820	WATTS	+/- 15%
Rated Continuous Torque	252	OZ-IN	----
Peak Torque (motor only)	903	OZ-IN	----
No-Load Current	0.69	AMPERES	MAX
Back EMF Constant (Ke)	16.4	V/KRPM	+/- 10%
Torque Constant (Kt)	22.2	OZ-IN/AMP	+/- 10%
DC Armature Resistance	1.47	OHMS	+/- 15%
Armature Inductance	1.14	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
www.midwestmotion.com

 email: sales@midwestmotion.com