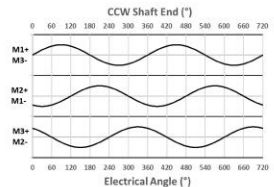
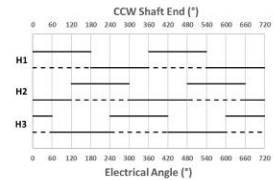
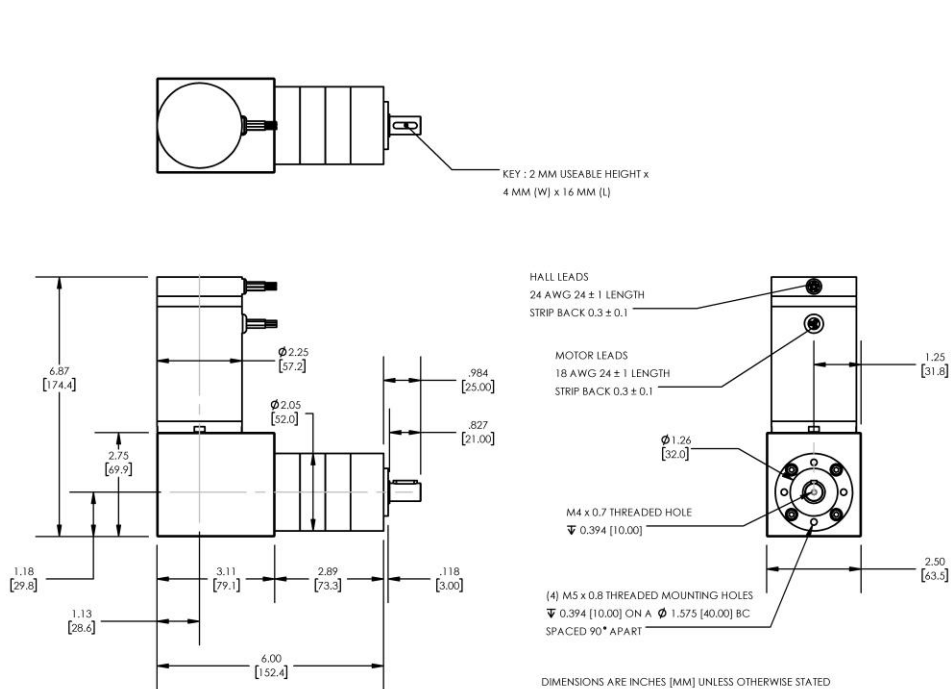




REVERSIBLE BRUSHLESS DC RIGHT-ANGLED GEARMOTOR

Model Number:

MMP BL58-412K-120V GRA52-169



HALL LEADS		MOTOR LEADS	
LEAD	COLOR	LEAD	COLOR
H1	BLUE	M1	RED
H2	GREY	M2	BLACK
H3	VIOLET	M3	WHITE
VCC	RED		
GND	BLACK		

ENCODER CABLE FUNCTIONS		
PIN	FUNCTION	COLOR
1	GROUND	BROWN
2	INDEX	VIOLET
3	A CHANNEL	BLUE
4	+5 VDC POWER	ORANGE
5	B CHANNEL	YELLOW

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)	28	RPM	MAX
Gearmotor Rated Continuous Torque	443	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	5.7	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	120	DC VOLTS	----
Rated Continuous Current	2.4	AMPERES	----
No-Load Speed	5970	RPM	MAX
Rated Speed	4762	RPM	+/- 15%
Rated Continuous Power Out	211	WATTS	+/- 15%
Rated Continuous Torque	60	OZ-IN	----
Peak Torque (motor only)	213	OZ-IN	----
No-Load Current	0.17	AMPERES	MAX
Back EMF Constant (Ke)	20.1	V/KRPM	+/- 10%
Torque Constant (Kt)	27.2	OZ-IN/AMP	+/- 10%
DC Armature Resistance	10.22	OHMS	+/- 15%
Armature Inductance	6.32	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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