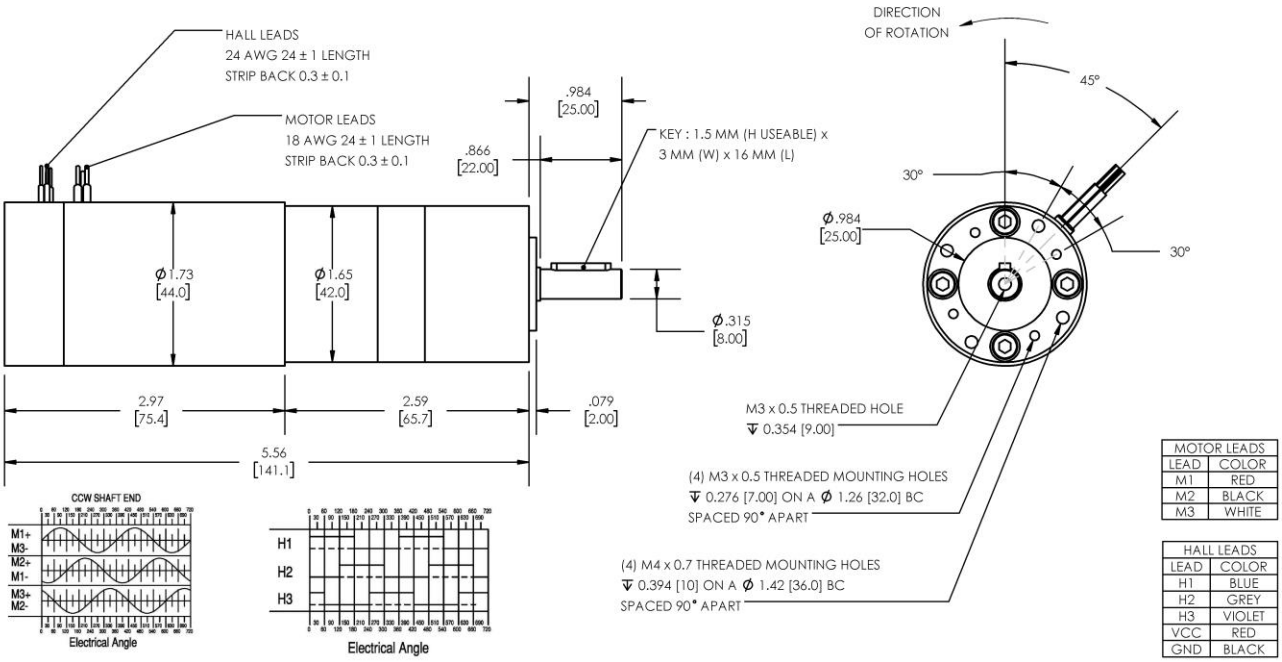
REVERSIBLE BRUSHLESS DC PLANETARY GEARMOTOR

Model Number:

MMP BL44-297I-120V GP42-03.7



MOTOR LEADS	
LEAD	COLOR
M1	RED
M2	BLACK
M3	WHITE

HALL LEADS	
LEAD	COLOR
H1	BLUE
H2	GREY
H3	VIOLET
VCC	RED
GND	BLACK

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)	1344	RPM	MAX
Gearmotor Rated Continuous Torque	3.7	In-Lbs	MAX
Gearmotor Rated Peak Torque	22++	In-Lbs	-----
Gearhead Standard Backlash	54	Arc Minutes	MAX
Gearhead Efficiency	80%	-----	-----
Output Shaft Radial Load Capacity	36	Lbs	MAX
Output Shaft Axial Load Capacity	12	Lbs	MAX
Gearmotor Total Weight	1.6	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	0.74	AMPERES	-----
No-Load Speed	5594	RPM	+/- 15%
Rated Speed	4974	RPM	+/- 15%
Rated Continuous Power Out	74	WATTS	+/- 15%
Rated Continuous Torque	20	OZ-IN	-----
Peak Torque (motor only)	121	OZ-IN	-----
No-Load Current	0.05	AMPERES	10%
Back EMF Constant (Ke)	21.3	V/KRPM	+/- 10%
Torque Constant (Kt)	28.8	OZ-IN/AMP	+/- 10%
DC Armature Resistance	19.00	OHMS	+/- 15%
Armature Inductance	16.17	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