



REVERSIBLE BRUSHLESS DC PLANETARY GEARMOTOR

Model Number:

MMP BL44-297J-120V GP42-051



DIMENSIONS ARE INCHES [MM] UNLESS OTHERWISE STATED

PLANETARY GEARMOTOR OUTPUT PARAMETERS:	VALUE	UNITS	TOLERANCE
Gearhead Ratio (exact)	50.89 : 1		
Gearhead Shaft Output Speed (at full-load)	77	RPM	MAX
Gearmotor Rated Continuous Torque	45	In-Lbs	MAX
Gearmotor Rated Peak Torque	221++	In-Lbs	----
Gearhead Standard Backlash	60	Arc Minutes	MAX
Gearhead Efficiency	70%	----	----
Output Shaft Radial Load Capacity	68	Lbs	MAX
Output Shaft Axial Load Capacity	25	Lbs	MAX
Gearmotor Total Weight	2.2	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	0.60	AMPERES	----
No-Load Speed	4558	RPM	+/- 15%
Rated Speed	3941	RPM	+/- 15%
Rated Continuous Power Out	58	WATTS	+/- 15%
Rated Continuous Torque	20	OZ-IN	----
Peak Torque (motor only)	99	OZ-IN	----
No-Load Current	0.04	AMPERES	10%
Back EMF Constant (Ke)	26.1	V/KRPM	+/- 10%
Torque Constant (Kt)	35.3	OZ-IN/AMP	+/- 10%
DC Armature Resistance	28.40	OHMS	+/- 15%
Armature Inductance	25.55	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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