



REVERSIBLE BRUSHLESS DC PLANETARY GEARMOTOR

Model Number:

MMP BL44-297C-24V 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)	67	RPM	MAX
Gearmotor Rated Continuous Torque	45	In-Lbs	MAX
Gearmotor Rated Peak Torque	185++	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	24	DC VOLTS	----
Rated Continuous Current	2.7	AMPERES	----
No-Load Speed	4095	RPM	+/- 15%
Rated Speed	3432	RPM	+/- 15%
Rated Continuous Power Out	51	WATTS	+/- 15%
Rated Continuous Torque	20	OZ-IN	----
Peak Torque (motor only)	83	OZ-IN	----
No-Load Current	0.17	AMPERES	10%
Back EMF Constant (Ke)	5.8	V/KRPM	+/- 10%
Torque Constant (Kt)	7.8	OZ-IN/AMP	+/- 10%
DC Armature Resistance	1.50	OHMS	+/- 15%
Armature Inductance	1.07	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

www.midwestmotion.com

email: sales@midwestmotion.com