



REVERSIBLE BRUSHLESS DC RIGHT-ANGLED GEARMOTOR

Model Number:

MMP BL87-435C-48V GRA81-100



PLANETARY GEARMOTOR OUTPUT PARAMETERS:	VALUE	UNITS	TOLERANCE
Gearhead Ratio (exact)	99.50 : 1		
Gearhead Shaft Output Speed (at full-load)	34	RPM	MAX
Gearmotor Rated Continuous Torque	1245	In-Lbs	MAX
Gearmotor Rated Peak Torque	2124++	In-Lbs	----
Gearhead Standard Backlash	36	Arc Minutes	MAX
Gearhead Efficiency	70%	----	----
Output Shaft Radial Load Capacity	225	Lbs	MAX
Output Shaft Axial Load Capacity	45	Lbs	MAX
Gearmotor Total Weight	17	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	48	DC VOLTS	----
Rated Continuous Current	20.8	AMPERES	----
No-Load Speed	4486	RPM	MAX
Rated Speed	3430	RPM	+/- 15%
Rated Continuous Power Out	725	WATTS	+/- 15%
Rated Continuous Torque	286	OZ-IN	----
Peak Torque (motor only)	853	OZ-IN	----
No-Load Current	1.06	AMPERES	MAX
Back EMF Constant (Ke)	10.7	V/KRPM	+/- 10%
Torque Constant (Kt)	14.5	OZ-IN/AMP	+/- 10%
DC Armature Resistance	0.54	OHMS	+/- 15%
Armature Inductance	0.46	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