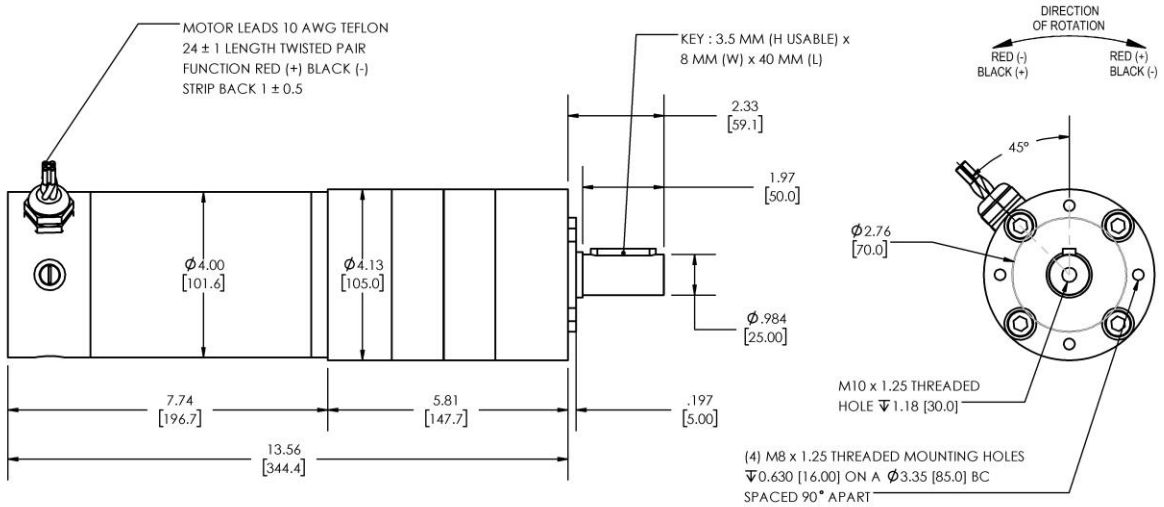
BRUSHED DC GEARMOTOR

- **REVERSIBLE, PLANETARY GEARING**

Model Number:

MMP S40-775A-12V GP105-014



DIMENSIONS ARE INCHES [MM] UNLESS OTHERWISE STATED

PLANETARY GEARMOTOR OUTPUT PARAMETERS:	VALUE	UNITS	TOLERANCE
Gearhead Ratio (exact)	13.73 : 1		
Gearmotor Output Speed (at Cont. Torque)	219	RPM	+/- 15%
Gearmotor Rated Continuous Torque	116	In-Lbs	MAX
Gearmotor Peak Torque Capacity	421++	In-Lbs	MAX
Gearhead Standard Backlash	36	Arc Minutes	MAX
Gearhead Efficiency	75%	-----	-----
Output Shaft Radial Load Capacity	203	Lbs	MAX
Output Shaft Axial Load Capacity	41	Lbs	MAX
Gearmotor Total Weight	14.5	Lbs	MAX

++ All Peak Torque values are dependent upon duty. Contact our sales office for details.

DC MOTOR PERFORMANCE PARAMETERS:	VALUE	UNITS	TOLERANCE
Input DC Voltage	12	DC VOLTS	-----
No-Load Current	7.14	AMPERES	MAX
No-Load Speed	3347	RPM	+/- 15%
Rated Continuous Torque	180	OZ-IN	MAX
Rated Continuous Current	43.9	AMPERES	MAX
Rated Speed (at Cont. Torque)	3009	RPM	+/- 15%
Rated Continuous Power Out	400	WATTS	+/- 15%
Peak Motor Torque	653	OZ-IN	MAX
Peak Motor Current	140	AMPERES	MAX
Back EMF Constant (Ke)	3.5	V/KRPM	+/- 10%
Torque Constant (Kt)	4.9	OZ-IN/AMP	+/- 10%
DC Armature Resistance	0.04	OHMS	+/- 15%
Armature Inductance	0.03	mH	+/- 15%
Number of Motor Poles	4	(-)	-----
Armature temperature	155	DEG. C	MAX

NOTES:

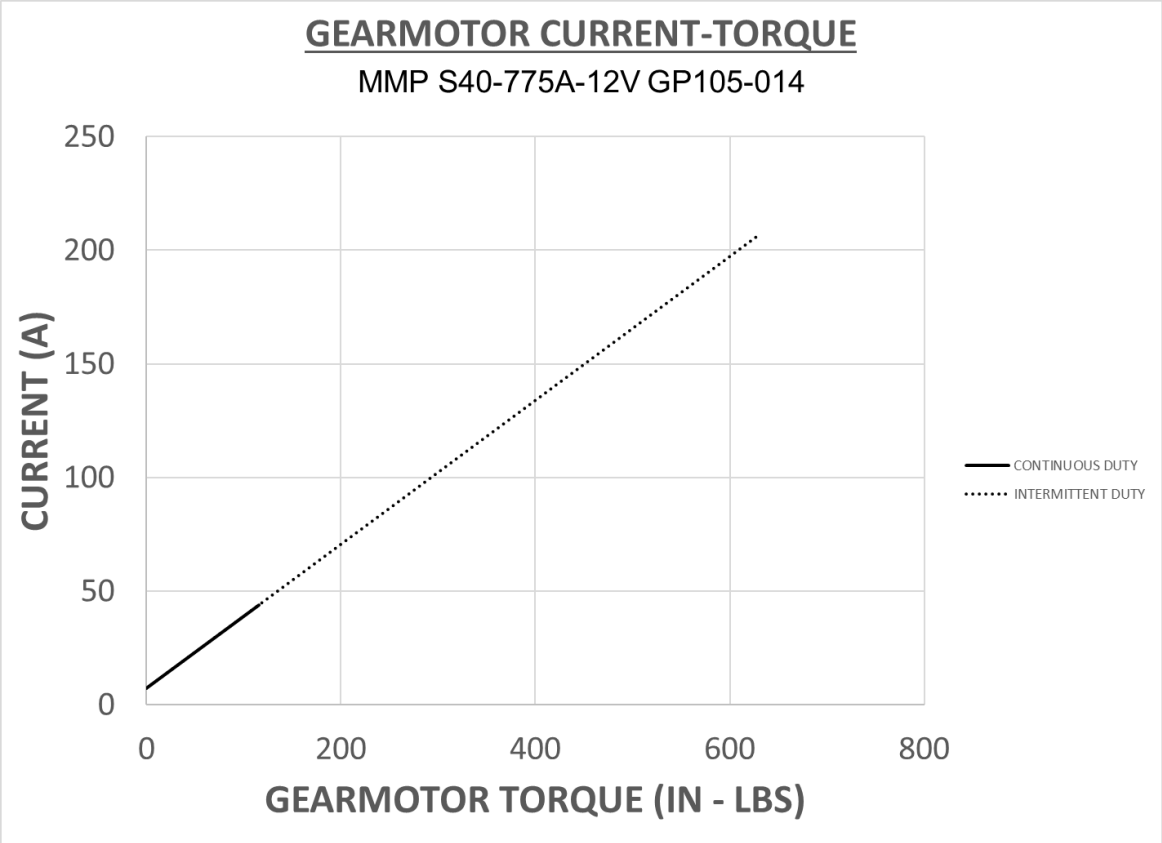
1. Rated speeds may drop as the motor temperature increases. Values are stated with the motor at 25 °C.
2. All Peak Torque values are dependent upon duty. Contact our sales office for details.

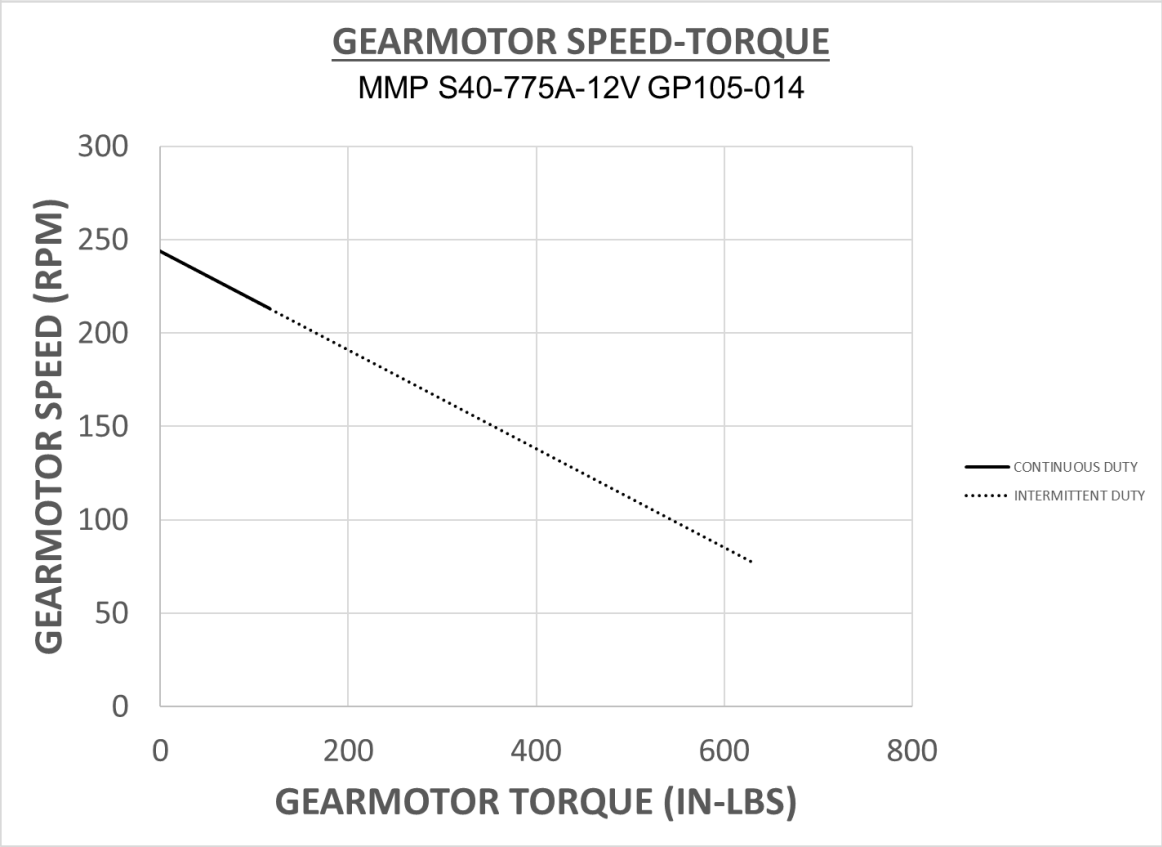
ENCODER & BRAKE OPTIONS AVAILABLE – **FOLLOW THIS LINK FOR DETAILS**
NEMA MOUNTING FLANGE OPTION AVAILABLE – **FOLLOW THIS LINK FOR DETAILS**

MIDWEST MOTION PRODUCTS, INC

DESIGN, MANUFACTURING & DISTRIBUTION - MOTION CONTROL EQUIPMENT

www.midwestmotion.com **email: sales@midwestmotion.com**


GEARMOTOR CURRENT-TORQUE
MMP S40-775A-12V GP105-014
CURRENT (A)
250
200
150
100
50
0
0
200
400
600
800
GEARMOTOR TORQUE (IN - LBS)
CONTINUOUS DUTY
INTERMITTENT DUTY


GEARMOTOR SPEED-TORQUE
MMP S40-775A-12V GP105-014
GEARMOTOR SPEED (RPM)
300
250
200
150
100
50
0
0
200
400
600
800
GEARMOTOR TORQUE (IN-LBS)
CONTINUOUS DUTY
INTERMITTENT DUTY