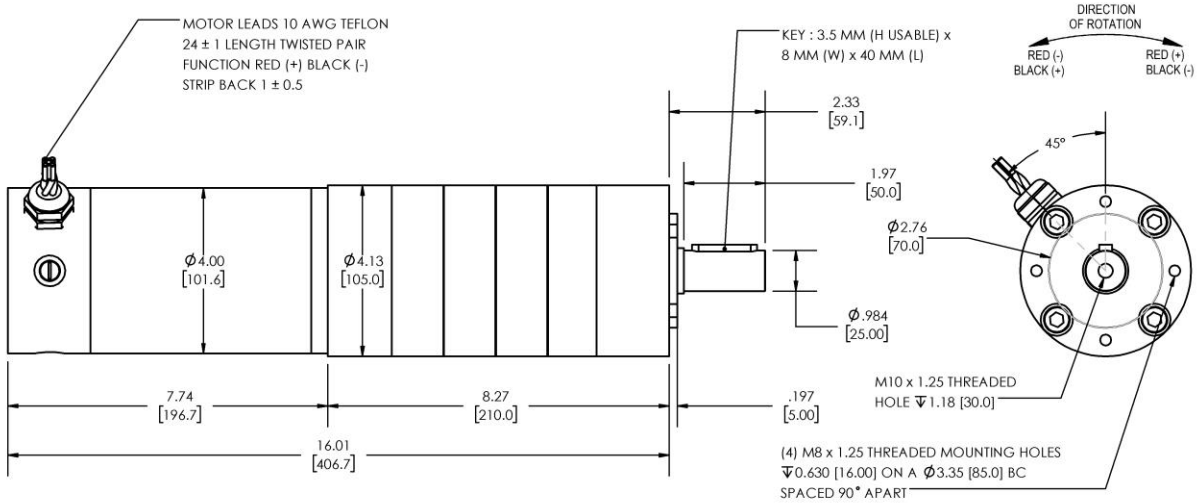
BRUSHED DC GEARMOTOR

- **REVERSIBLE, PLANETARY GEARING**

Model Number:

MMP S40-775A-12V GP105-777



DIMENSIONS ARE INCHES [MM] UNLESS OTHERWISE STATED

PLANETARY GEARMOTOR OUTPUT PARAMETERS:	VALUE	UNITS	TOLERANCE
Gearhead Ratio (exact)	776.76 : 1		
Gearmotor Output Speed (at Cont. Torque)	4.1	RPM	+/- 15%
Gearmotor Rated Continuous Torque	3452	In-Lbs	MAX
Gearmotor Peak Torque Capacity	3452++	In-Lbs	MAX
Gearhead Standard Backlash	39	Arc Minutes	MAX
Gearhead Efficiency	65%	-----	-----
Output Shaft Radial Load Capacity	338	Lbs	MAX
Output Shaft Axial Load Capacity	68	Lbs	MAX
Gearmotor Total Weight	14.5	Lbs	MAX

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

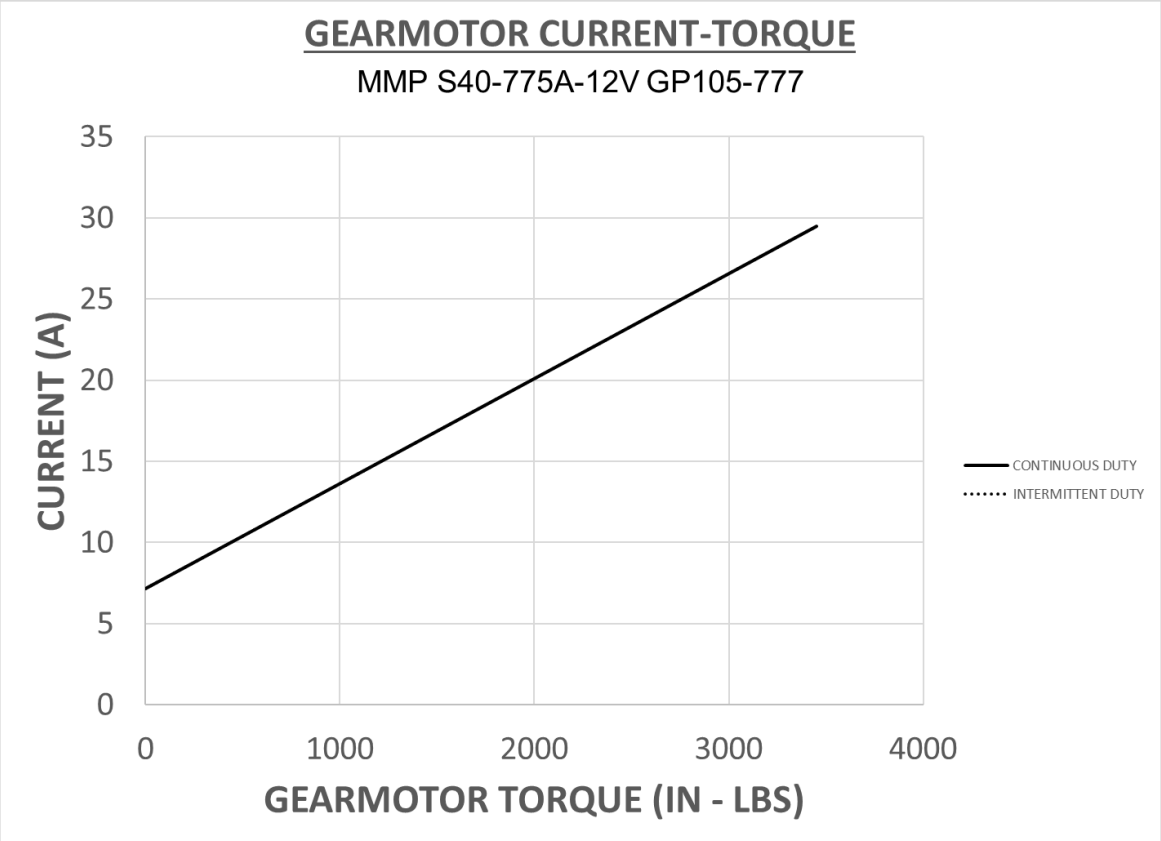
DC MOTOR PERFORMANCE PARAMETERS:	VALUE	UNITS	TOLERANCE
Input DC Voltage	12	DC VOLTS	-----
No-Load Current	7.14	AMPERES	MAX
No-Load Speed	3347	RPM	+/- 15%
Rated Continuous Torque	109	OZ-IN	MAX
Rated Continuous Current	29.5	AMPERES	MAX
Rated Speed (at Cont. Torque)	3173	RPM	+/- 15%
Rated Continuous Power Out	257	WATTS	+/- 15%
Peak Motor Torque	109	OZ-IN	MAX
Peak Motor Current	29.5	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

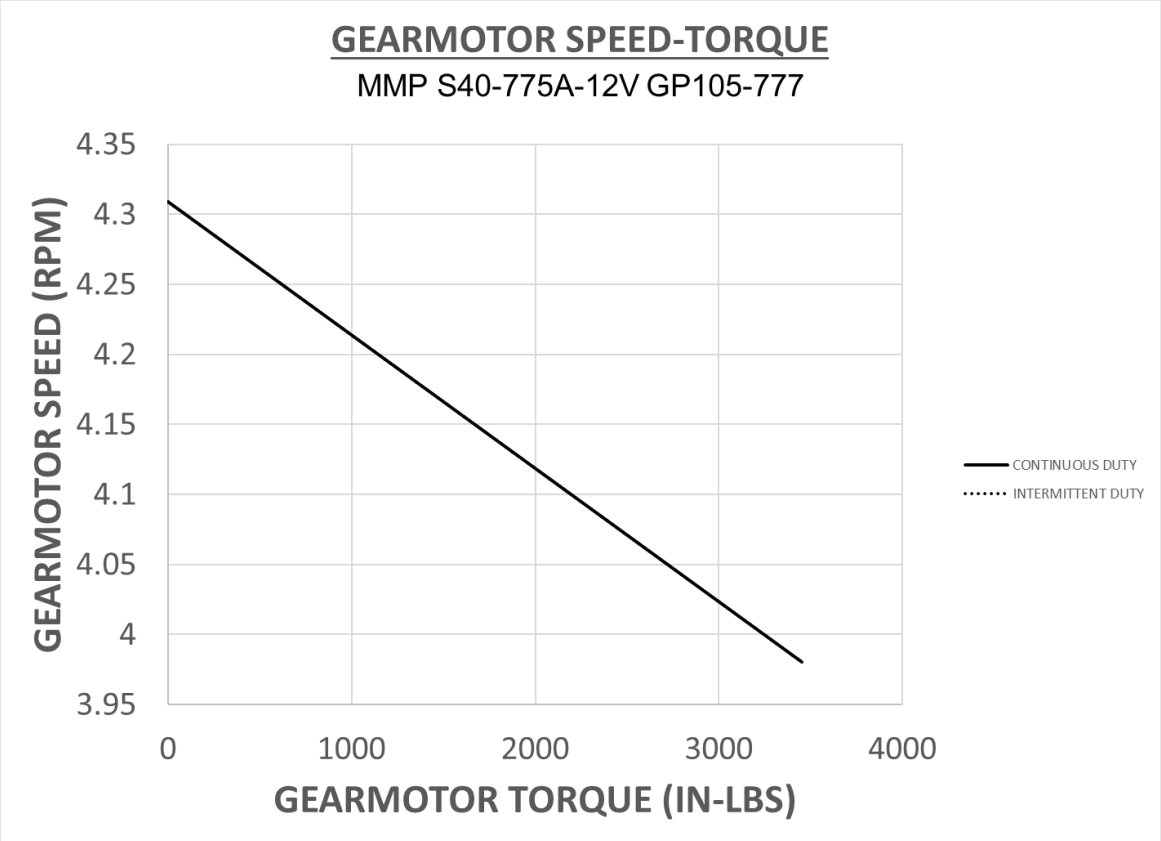
NOTES:

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 GP105-777
CURRENT (A)
35
30
25
20
15
10
5
0
0
1000
2000
3000
4000
GEARMOTOR TORQUE (IN - LBS)
CONTINUOUS DUTY
INTERMITTENT DUTY


GEARMOTOR SPEED-TORQUE
MMP S40-775A-12V GP105-777
GEARMOTOR SPEED (RPM)
4.35
4.3
4.25
4.2
4.15
4.1
4.05
4
3.95
0
1000
2000
3000
4000
GEARMOTOR TORQUE (IN-LBS)
CONTINUOUS DUTY
INTERMITTENT DUTY