

**STANDARD PRODUCT**

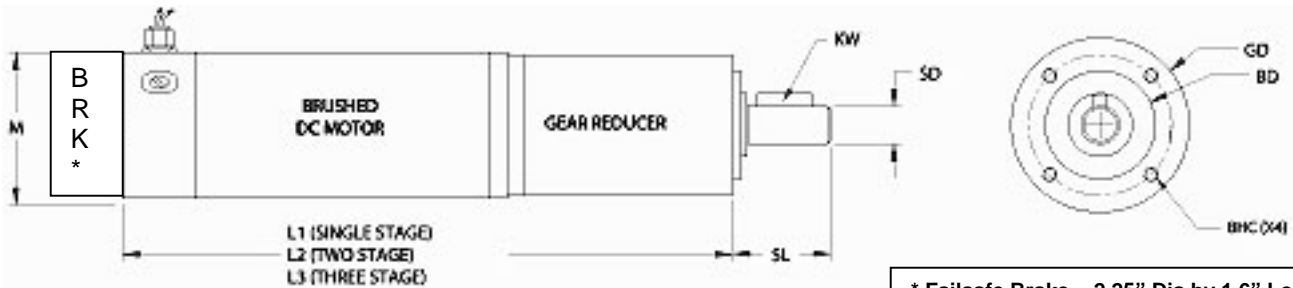


**Date:** 12/26/2007

**Prepared for:** Production

**Planetary Gearmotor**

**Model #:** MMP C21-125B -12V GP52-046 BR-005



\* Failsafe Brake = 2.25" Dia by 1.6" Long.  
Holding Torque = 5.0 IN LBS. 12 VDC Coil

REAR SHAFT EXTN AVAILABLE FOR ENCODER- MEASURES 0.375" DIA BY .500" LONG

**Dimensions:**

Note: The Center of the Output Shaft contains an M-4 Threaded Hole, 20mm deep

**M= 2.25" (57mm)**

**SL= 0.984" (25mm)**

**L (2) =8.7" (221mm) Incl. Brake**

**GD= 2.05" (52mm)**

**KW= 4x4x16 mm**

**BD= 1.26" (32mm) Pilot Length = 3mm**

**SD= 0.472" (12mm + 0, -18µm)**

**BHC (dia.)=M5x10mmdp (4ea) 40mm BCD**

**MOTOR PERFORMANCE PARAMETERS**

	Value	Units	Tolerance
RATED VOLTAGE D.C.	12.0	VOLTS	----
RATED CONTINUOUS CURRENT	6.6	AMPERE	----
RATED CONTINUOUS MOTOR TORQUE	25	OZ - IN	----
RATED SPEED	3800	RPM	+/- 15%
RATED CONTINUOUS POWER OUT	70	WATTS	+/- 15%
NO LOAD SPEED	4200	RPM	MAX
NO LOAD CURRENT	0.52	AMPS	MAX
BACK EMF CONSTANT (Ke)	2.8	V/KRPM	+/- 10%
TORQUE CONSTANT (Kt)	3.8	OZ -IN / A	+/- 10%
DC ARMATURE RESISTANCE AT 1.5 AMPS	0.60	OHMS	+/- 15%
ARMATURE TEMP	155	DEGR. C	MAX
PEAK TORQUE (motor-only)	150	OZ-IN.	----

**PLANETARY GEARMOTOR OUTPUT PARAMETERS:**

PLANETARY GEARBOX RATIO	46:1		
GEAR MOTOR RATED CONTINUOUS TORQUE	47	IN LBS	MAX
GEAR BOX PEAK TORQUE CAPACITY	213++	IN LBS	MAX
GEARBOX SHAFT OUTPUT SPEED (@ F.L.)	83	RPM	----
GEARBOX STANDARD BACKLASH	45	ARC MIN.	MAX
GEARBOX EFFICIENCY	75%		
GEARMOTOR / BRAKE TOTAL WEIGHT	5.0	Lbs.	MAX

NOTE: TENV DESIGN; MEETS IP-54 STANDARD ~ TRUE PLANETARY GEARING ~ BALL BEARINGS

++ All Peak Values are dependent upon duty. Kindly consult our Sales Offices for further details

**MIDWEST MOTION PRODUCTS**

**Design, Manufacturing & Distribution - Motion Control Equipment**

10761 Ahern Avenue S. E. Watertown, MN. 55388

Phone: 952-955-2626 Fax: 480-247-4096

www.midwestmotion.com

email: randy@midwestmotion.com