

**STANDARD PRODUCT**

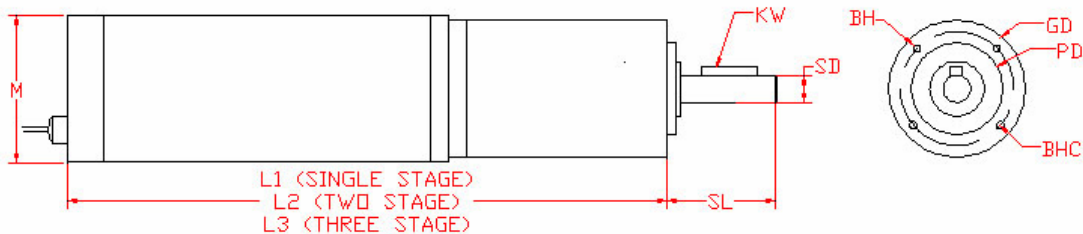


**Date:** 08/02/2008

**Prepared for:** Production

Planetary Gearmotor

**Model Number:** MMP TM55-12V GP52-025



**NOTE: TWIN JACKETED LEADWIRES, 11" LONG, EXIT THE REAR END CAP THROUGH A "SEAL TITE" CONNECTOR**

**Dimensions:**

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

**M = 2.17" (55mm)**

**SL = 25mm**

**L (2) = 7.2" (184mm)**

**GD = 2.047" (52mm)**

**KW = 4x4x16 mm**

**BD = 32mm. Pilot Length = 3mm**

**SD = 12mm, + 0, -18µm**

**BHC (dia.) = M5x10mm deep (4ea) 40mm BCD**

<b>DC MOTOR PERFORMANCE PARAMETERS</b>	<b>Value</b>	<b>Units</b>	<b>Tolerance</b>
RATED VOLTAGE D.C.	12.0	VOLTS	----
RATED CONTINUOUS CURRENT	7.2	AMPERE	----
RATED CONTINUOUS TORQUE	23.0	OZ - IN	----
RATED SPEED	4600	RPM	+/- 15%
RATED CONTINUOUS POWER OUT	78	WATTS	+/- 15%
NO LOAD SPEED	5000	RPM	MAX
NO LOAD CURRENT	1.2	AMPS	MAX
BACK EMF CONSTANT (Ke)	2.4	V/KRPM	+/- 10%
TORQUE CONSTANT (Kt)	3.3	OZ -IN / A	+/- 10%
DC ARMATURE RESISTANCE AT 1.5 AMPS	0.30	OHMS	+/- 15%
ARMATURE TEMP	155	DEGR. C	MAX
PEAK TORQUE (motor-only)	120	OZ - IN	----
<b>PLANETARY GEARMOTOR OUTPUT PARAMETERS:</b>			
PLANETARY GEARHEAD RATIO	25:1		
GEARMOTOR RATED CONTINUOUS TORQUE	25	LB-IN.	MAX
GEARMOTOR PEAK TORQUE	213++	LB-IN.	MAX
GEARHEAD SHAFT OUTPUT SPEED (@ F.L.)	184	RPM	----
GEARHEAD STANDARD BACKLASH	45	Arc Minutes	MAX
GEARHEAD EFFICIENCY	75%		
GEARMOTOR TOTAL WEIGHT	48	OUNCES	MAX

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

**++ All Peak Torque 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 e-Fax: 480-247-4096

[www.midwestmotion.com](http://www.midwestmotion.com)

email: [randy@midwestmotion.com](mailto:randy@midwestmotion.com)