



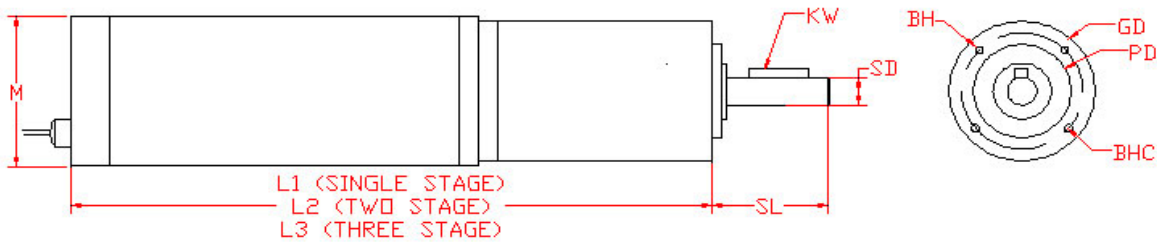
**STANDARD PRODUCT**

**Date:** 02/02/2009

**Prepared for:** Production

Planetary DC Gearmotor

**Model Number:** MMP TM55-12V GP52-059



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

**Dimensions:**

**Note: The center of the output shaft contains an M4 Threaded Hole, 20mm Deep**

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

**SL= 25mm**

**L (3) =7.75" (184mm)**

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

**KW= 4x4x16 mm**

**PD= 32mm, Pilot Length = 3mm**

**SD= 12mm, + 0, -18µm**

**BHC (dia.) =M5 x 10mm deep (4ea) on a 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	59 : 1		
GEARMOTOR RATED CONTINUOUS TORQUE	59	LB-IN.	MAX
GEARMOTOR RATED PEAK TORQUE	443++	LB-IN.	MAX
GEARHEAD SHAFT OUTPUT SPEED (@ F.L.)	78	RPM	----
GEARHEAD STANDARD BACKLASH	45	Arc Min.	MAX
GEARHEAD EFFICIENCY	70%		
GEARMOTOR TOTAL WEIGHT	48	OUNCES	MAX

**NOTE: TENV DESIGN; MEETS IP-54STANDARD ~ TRUE PLANETARY GEARING ~ BALL BEARINGS**  
**++ All Peak Torque Values are dependent upon duty. Kindly consult our Sales Offices for further details**

**Midwest Motion Products**  
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