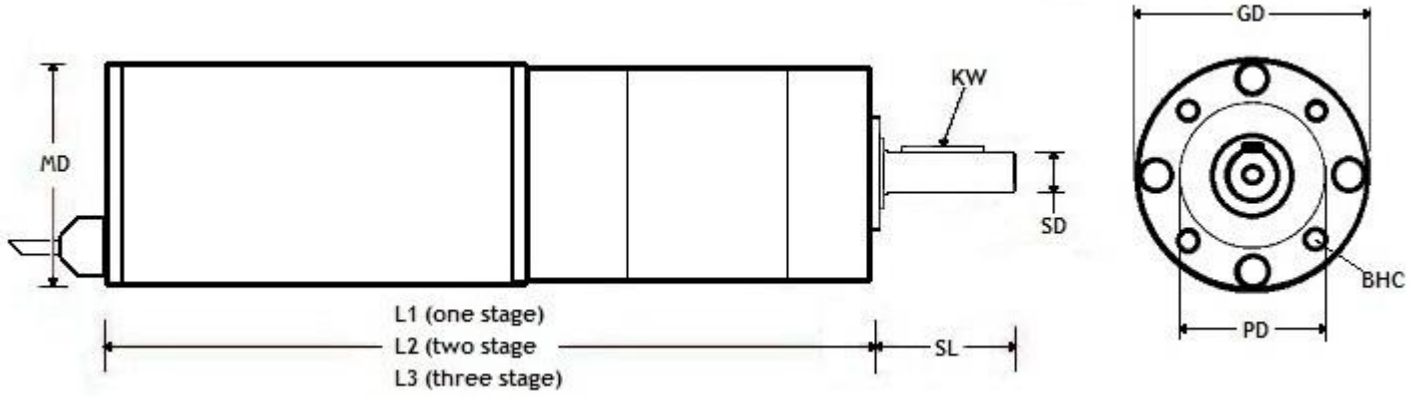
MIDWEST MOTION PRODUCTS

Date: 03 Dec, 2009 Prepared for: Production
Model Number: **MMP TM55-12V GPk52-046-LS**



Note: Twin Jacketed Leadwires, 11" Long, exit the Rear End Cap through a "Seal-Tight" Connector

DIMENSIONS: (Note: Center of output shaft contains an M-4 threaded hole)

MD=2.17" (55mm) SL= 1.5" (usable shaft length = 1.280")
L2 = 7.20" (183mm) GD = 2.047 (52mm)
KW = 1/8" x 1/8" x 0.750" long PD = 32mm, pilot length = 3mm
SD = 0.500"; +0, -0.0005" BHC (dia) = M5 x 10mm deep (4 ea) on a 40mmØ BC

DC MOTOR PERFORMANCE PARAMETERS:	VALUE	UNITS	TOLERANCE
Rated DC Voltage	12.0	DC VOLTS	-----
Rated Continuous Current	7.2	AMPERES	-----
No-Load Speed	5000	RPM	MAX
Rated Speed	4400	RPM	+/- 15%
Rated Continuous Power Out	78	WATTS	+/- 15%
Rated Continuous Torque	23.0	OZ-IN	-----
Peak Torque (motor only)	120	OZ-IN	-----
No-Load Current	1.25	AMPERES	MAX
Back EMF Constant (Ke)	2.4	V/KRPM	+/- 10%
Torque Constant (Kt)	3.2	OZ-IN/AMP	+/- 10%
DC Armature Resistance (@1.5 amps)	0.43	OHMS	+/- 15%
Armature temperature	155	DEG. C	MAX
PLANETARY GEARMOTOR OUTPUT PARAMETERS:	**VALUE**	**UNITS**	**TOLERANCE**
Gearhead Ratio	46 : 1		
Gearmotor Rated Continuous Torque	46	IN-LBS	MAX
Gearmotor Rated Peak Torque	89++	IN-LBS	MAX
Gearhead Shaft Output Speed (at full-load)	96	RPM	-----
Gearhead Standard Backlash	69	ARC MINUTES	MAX
Gearhead Efficiency	70%	-----	-----
Gearmotor Total Weight	48	OZ	MAX

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

THIS ROBUST, TENV DESIGN WITH 'TRUE PLANETARY GEARING' IS OFFERED BY:
MIDWEST MOTION PRODUCTS
Design, Manufacturing & Distribution — Motion Control Equipment
10761 Ahern Avenue SE Watertown, MN 55388
Phone: 952-955-2626 Fax: 480-247-4096
www.midwestmotion.com email: sales@midwestmotion.com