



DIRECTION OF MOTOR ROTATION
WITH + APPLIED TO TERMINAL #1
AND VIEWED FROM THIS END
CW

MOTOR CHARACTERISTICS			
RATED VOLTAGE D.C.	24	VOLTS	
RATED CURRENT	1.68	AMPS	
RATED TORQUE	6	OZ-IN	
RATED SPEED	6700	RPM	+/-15%
RATED POWER OUT	30	WATTS	+/-15%
NO LOAD SPEED	8000	RPM	+/-15%
NO LOAD CURRENT	0.27	AMPS	MAX
BACK EMF CONSTANT	2.7	V/KRPM	+/-10%
TORQUE CONSTANT	3.65	OZ-IN/AMP	+/-10%
DC ARMATURE RESISTANCE AT 1.5	2.7	OHMS	+/-15%
STATIC FRICTION	0.5	OZ-IN	MAX
ENDPLAY WITH 5 POUND REVERSING	0.005	INCHES	MAX
SHAFT TIR	0.001	INCHES	MAX
ARMATURE INERTIA	0.0006	OZ-IN/SEC ²	REF
WEIGHT	17.28	OUNCES	REF

OPERATING LIMITS			
SPEED	10000	RPM	MAX
ARMATURE TEMPERATURE	155	DEGREES C	MAX

WORM GEAR SPECIFICATIONS	
24 PITCH WORM GEAR	
PRESSURE ANGLE	14-1/2"
PITCH DIAMETER	.5000-.0010
LEAD ANGLE	4°-46'
LEAD	.1309
AGMA QUALITY	10
MATERIAL	STAINLESS STEEL
SINGLE THREAD	
RIGHT HAND	

GEAR DATA			
GEAR RATIO	16:1		
EFFICIENCY	71	%	
OUTPUT TORQUE	57	IN-OZ	
SIDE LOAD	20	LBS	MAX
OUTPUT SPEED	419	RPM	+/-15%

- NOTES:
1. SHAFT SEAL ON GEARHEAD OUTPUT SHAFT.
2. ALL JOINTS O-RING SEALED
3. ALL ALUMINUM COMPONENTS ANODIZED.

MS1509L-05/GT-016/C
GEARMOTOR