



4X 1/4-20UNC-2B THRU EQ
SP ON A Ø2.625 B.C.

MOTOR CHARACTERISTICS			
RATED VOLTAGE D.C.	24	VOLTS	
RATED CURRENT	7	AMPS	
RATED TORQUE	28	IN-OZ	
PEAK TORQUE	200	IN-OZ	
RATED SPEED	7250	RPM	+/-1.5%
RATED POWER OUT	109	WATTS	+/-1.5%
NO LOAD SPEED	8200	RPM	+/-1.5%
NO LOAD CURRENT	1.8	AMPS	MAX
BACK EMF CONSTANT	2.9	V/KRPM	+/-10%
TORQUE CONSTANT	3.95	OZ-IN/AMP	+/-10%
DC ARMATURE RESISTANCE AT 1.5 AMPS	.6	OHMS	+/-1.5%
STATIC FRICTION	3	OZ-IN	MAX
REGULATION CONSTANT	33	RPM/IN-OZ	
INDUCTANCE	1.3	mH	
ENDPLAY WITH 5 POUND REVERSING	0.005	INCHES	MAX
SHAFT IR	0.001	INCHES	MAX
ARMATURE INERTIA	0.005	OZ-IN/SEC ²	REF

GEAR DATA			
GEAR RATIO	16:1		
EFFICIENCY	85	%	
OUTPUT TORQUE	23.8	OZ-IN	
SIDE LOAD	400	LBS	MAX
OUTPUT SPEED	406	RPM	+/-1.5%
BACKLASH	10	ARC-MIN	NO LOAD
PEAK TORQUE	170	IN-LB	MAX

TACH CHARACTERISTICS			
VOLTAGE OUTPUT	1	V/KRPM	+/-10%
RIPPLE (FILTERED)	1	P-T-P % OF MAX OUTPUT	MAX
D.C. RESISTANCE	5	OHMS	+/-20%
LINEARITY	1	%	MAX

OPERATING LIMITS			
SPEED	8000	RPM	MAX
ARMATURE TEMPERATURE	155	DEGREES C	MAX

MS2220-00/TO-01/GC-016/C
GEARMOTOR TACH