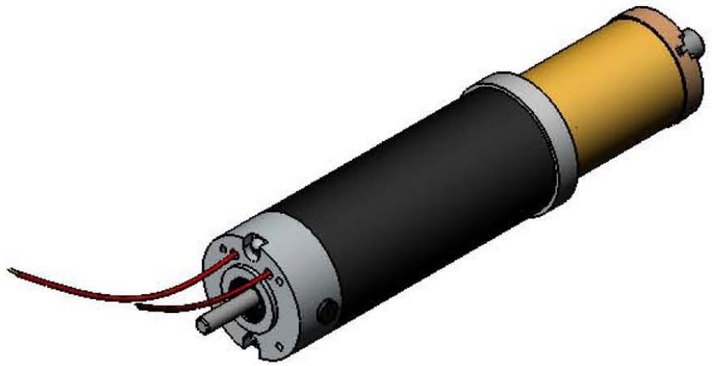

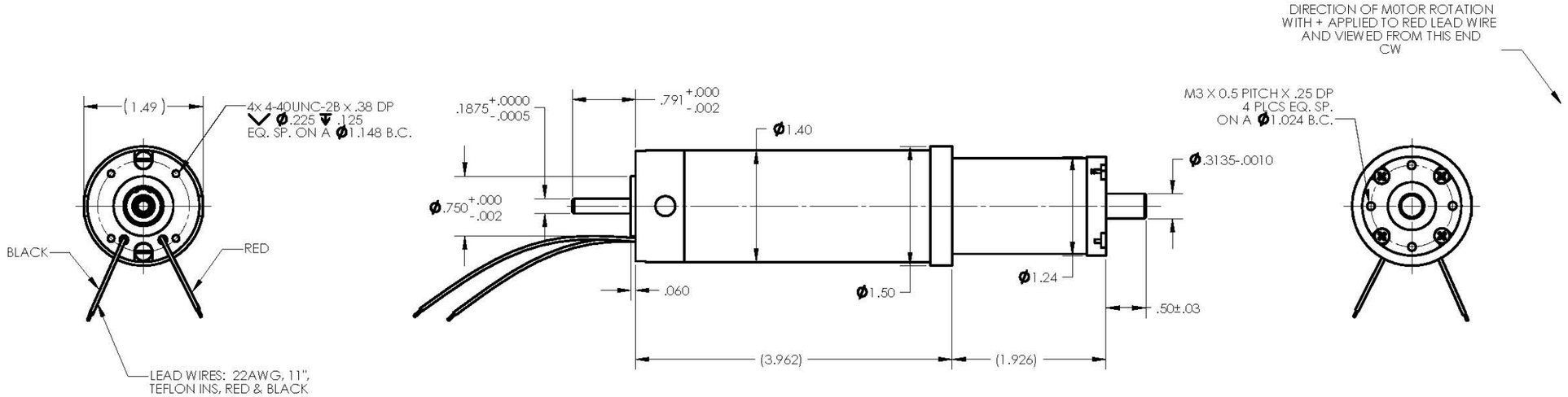

MOTOR CHARACTERISTICS			
RATED VOLTAGE D.C.	@34	VOLTS	
RATED CURRENT	1	AMPS	
RATED TORQUE	10	OZ-IN	
RATED SPEED	4600	RPM	+/-15%
RATED POWER OUT	30	WATTS	+/-15%
NO LOAD SPEED	5600	RPM	+/-15%
NO LOAD CURRENT	0.1	AMPS	MAX
BACK EMF CONSTANT	6	V/KRPM	+/-10%
TORQUE CONSTANT	8.17	OZ-IN/AMP	+/-10%
DC ARMATURE RESISTANCE AT 1.5	5.1	OHMS	+/-15%
STATIC FRICTION	0.8	OZ-IN	MAX
ENDPLAY WITH 5 POUND REVERSING	0.005	INCHES	MAX
SHAFT TIR	0.001	INCHES	MAX
ARMATURE INERTIA	0.001	OZ-IN/SEC2	REF

GEAR DATA			
GEAR RATIO	256:1		
EFFICIENCY	50	%	
OUTPUT TORQUE	1024	OZ-IN	
SIDE LOAD	20	LBS	MAX
OUTPUT SPEED	20	RPM	+/-15%
BACKLASH	3	DEGREES	AVERAGE

OPERATING LIMITS			
SPEED	10,000	RPM	MAX
ARMATURE TEMPERATURE	200	DEGREES C	MAX

NOTES:
1. ABEC 3 SHIELDED BEARINGS IN MOTOR WITH HIGH TEMPERATURE GREASE, NHBB TYPE SSR-3 OR EQUIVALENT.
2. ARMATURE IS 200°C RATED.
3. MOTOR SHAFT MAT'L 416 STAINLESS STEEL, HARDNESS 40-43Rc.
4. END CAP MAT'L 303 STAINLESS STEEL
5. RUGGED, DURABLE, HIGH TEMPERATURE DESIGN.
6. WRAP COMM CONNECTION FOR HIGH SPEED.

DYNETIC SYSTEMS
ELK RIVER, MINNESOTA

MS1525-XX/GT-256/C
MOTOR, PM DC