SIZE	DRAWING	SHT.	REV.
D	001-1909-007	1 OF 1	

PROPRIETARY INFORMATION
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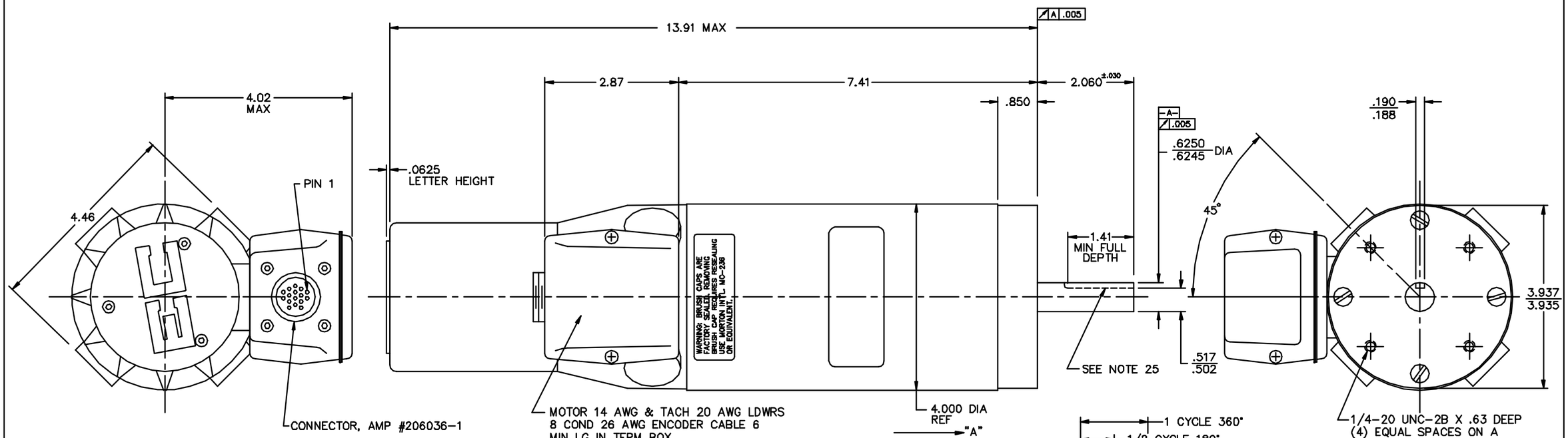
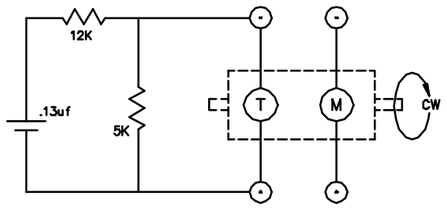


MOTOR SPECIFICATIONS ARE 25° C UNLESS OTHERWISE NOTED

1. MOTOR Kt 47.8± OZ-IN/A.
2. MOTOR Ke 31.9-38.9 V/KRPM WITHIN 400 mV CW TO CCW.
3. MOTOR TERMINAL RESISTANCE .55-75 OHMS AT 4A.
4. MAXIMUM TERMINAL VOLTAGE 120 V.
5. MAXIMUM CONTINUOUS SPEED 2700 RPM (NO LOAD).
6. MAXIMUM PEAK TORQUE 2880 OZ-IN.
7. MAXIMUM PEAK CURRENT 60 A.
8. MAXIMUM CONTINUOUS STALL TORQUE AT MAXIMUM MOTOR TEMP 576 OZ-IN.
9. MAXIMUM CONTINUOUS CURRENT 13.4 A.
10. ELECTRICAL TIME CONSTANT 2.1 mSEC.
11. MECHANICAL TIME CONSTANT 4.1 mSEC
12. MOTOR INDUCTANCE 1.28 mH
13. MOTOR INERTIA 0.176 OZ-IN-SEC^2.
14. STATIC FRICTION TORQUE 26 OZ-IN MAX.
15. NO LOAD CURRENT AT 89 V, 1.44 A MAX.
16. MAXIMUM WINDING TEMP 155°C.
17. THERMAL RESISTANCE ARMATURE TO AMBIENT 1.1°C/W MOUNTED ON A 12 X 12 X 12 HEATSINK
18. THERMAL STABILITY OF MOTOR TORQUE CONSTANT-2%/°C.
19. DIELECTRIC BREAKDOWN OF MOTOR ARMATURE TO GROUND 500 V @ 60 Hz FOR 1 MIN.
20. SHAFT END PLAY, .001 MAX IN DIRECTION "A" WITH A 20 LB LOAD.
    .010 MAX IN DIRECTION "B" WITH A 20 LB LOAD.
21. TACH Ke 12.5-15 V/KRPM WITHIN 150 MV CW TO CCW.
22. TACH RESISTANCE 100± 15% OHMS.
23. TACH RIPPLE (SEE FIG. 2) 2% PEAK AT 500 RPM WITH LOAD MOMENT OF INERTIA.
24. MOTOR AND TACH WEIGHT 21 LBS.
25. 3/16 SQ. X 1-3/8 LONG KEY, SUPPLIED.



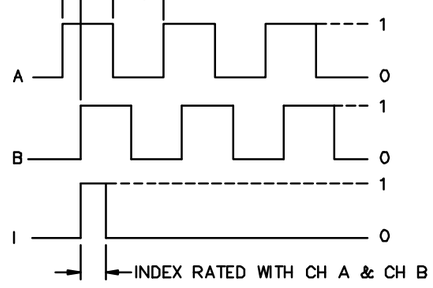
OPTICAL INFORMATION:

1.0 MECHANICAL:
- 1.1 MOMENT OF INERTIA, 100 X 10^{-8} IN-SEC.^{2}
- 1.2 RATED SPEED RANGE, 7000 RPM.
- 1.3 FLUTTER, LESS THAN ± P-P.
- 1.4 ROTATION, CW AND CCW.
- 1.5 HUB SIZE, 1/2" DIA

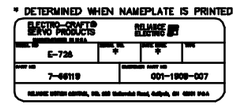
2.0 ELECTRICAL:
- 2.1 CODE, INCREMENTAL.
- 2.2 PULSES PER REVOLUTION 100.
- 2.3 INPUT POWER: 5 VDC±5% AT 160 mA.
- 2.4 DATA RATE: 100 KHz.
- 2.5 INDEX RATE: 20 KHz.

3.0 ENVIRONMENTAL:
- 3.1 OPERATING TEMPERATURE: 0° TO +85°C.
- 3.2 STORAGE TEMPERATURE: -30° TO + 110°C.
- 3.3 HUMIDITY: 90% RELATIVE, NO CONDENSATION.

4.0 OPTICAL KIT IS TO INCLUDE:
RHS2ID-100-1/2-5-CA4-LD-MI-S
ALL MOUNTING HARDWARE.



CONNECTOR HOOK-UP		
OUTPUT	LEAD COLOR	PIN
M+	RED	1
M-	BLACK	2
TACH -	WHITE	3
TACH +	BLUE	4
OPEN		5-8
A	YELLOW	9
B	BLUE	10
+5V	RED	11
INDEX	ORANGE	12
GND	BLACK	13
A	WHITE	14
B	GREEN	15
INDEX	BROWN	16



NAMEPLATE DETAIL

REV	PAN NO	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APPR BY	DATE	BY
A	12397	REL							

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
		ELECTROCRAFT MOTOR 728-036-0877	
		PARTS LIST	

SURFACE TREATMENT ~

HEAT TREATMENT ~

FIRST USED ON: AB20

EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 ±.030 .00 ±.010 .000 ±.005 .0000 ±.0005 ANGULAR ±.030 BREAK ALL SHARP EDGES

THIRD ANGLE PROJECTION

HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.

DESCRIPTION: ASS'Y, MTE

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
DRA	10-28-92	KLP	10-28-92		

SCALE	SIZE	DRAWING	SHT.	REV.
1=1	D	001-1909-007	1 OF 1	

UNIT OF MEAS: EA.

CN AB761