- NOTICE -
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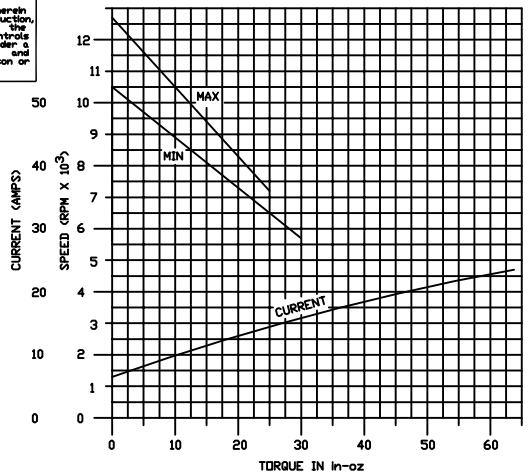
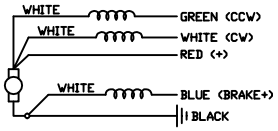
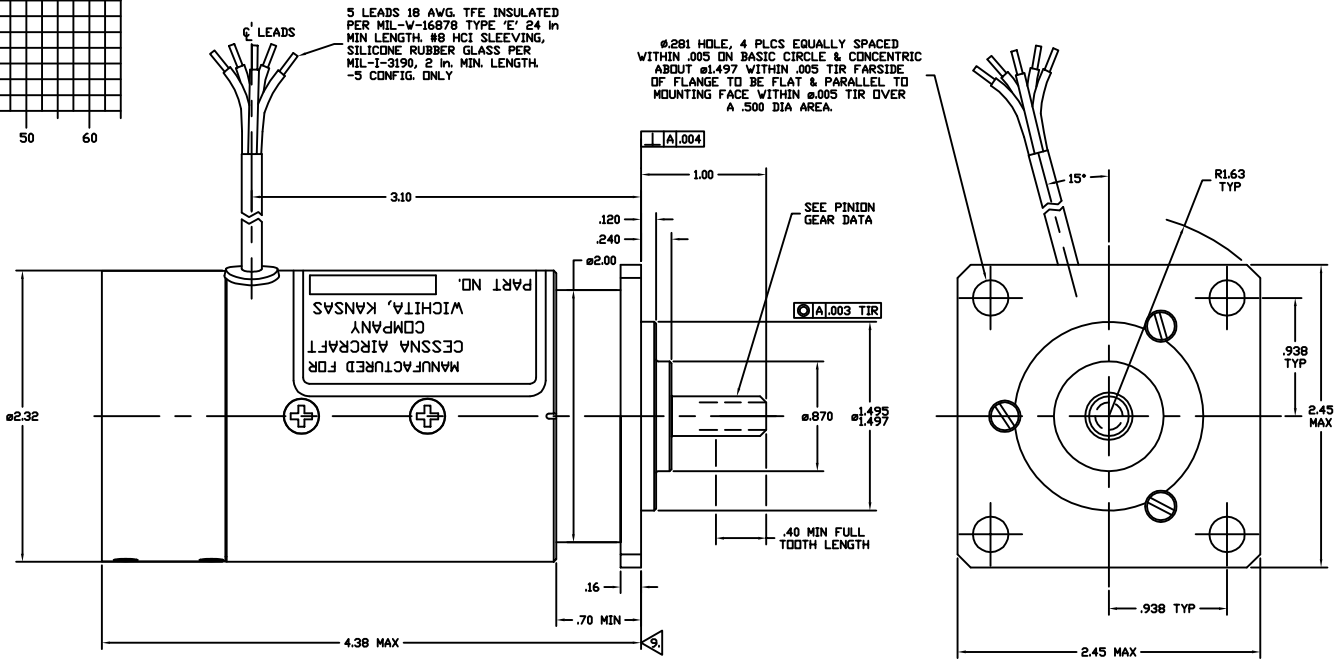
REVISIONS				
C.O. NO.	REV	REVISION DESCRIPTION	DATE	APPD
ASC2056	J	SEE SHEET 1 FOR REVISIONS	2-19-02	D.S.

-3 & -5 CONFIG.
14. PERFORMANCE CURVE





SCHEMATIC WIRING DIAGRAM -5



-5 CONFIG.

PINION GEAR DATA			
CLASS			
DIAMETRAL PITCH			32
PRESSURE ANGLE			20°
NUMBER OF TEETH			7
PITCH DIAMETER -THEO-		-A-	.21875
OUTSIDE DIAMETER			.315 +.000 -.003
ROOT DIAMETER			
WHOLE TOOTH DEPTH			.0708
CIRCULAR TOOTH THICKNESS	AT PITCH LINE	THEO.	.0625
	MACHINE TO	MAX.	.0615
		MIN.	.0605
MEASUREMENT OVER .0600 DIAMETER WIRES, 2 EA.		THEO.	
		MAX.	.3215
		MIN.	.3209
TOOTH/TOOTH COMPOSITE ERROR			.001
TOTAL COMPOSITE ERROR			.002
CHECKING RADIUS	MAX. IND. READ		
	MIN. IND. READ		
CONCENTRIC TO MTG. DIA'S WITHIN			.003 TIR
TOOTH SURFACE HARDNESS Rc			58-60
SURFACE FINISH ON TEETH			32
MATING GEAR	PART NUMBER		
	NO. OF TEETH		
	CENTER DISTANCE		
	TOTAL SPEC BACKLASH	MAX.	
		MIN.	

MOTOR CHARACTERISTICS -1,-3,-5		
1	SPECIFICATION	
2	VOLTAGE NOMINAL	28 VDC
3	VOLTAGE RANGE (MAX.)	30 VDC
4	VOLTAGE RANGE (MIN.)	18 VDC
5	PHASE & CYCLE	
6	RATED AMPERES	13 AMPS
7	MAX. AMPERES	23 AMPS
8	RATED AMPERS	
9	STALL AMPERS	
10	SPECIAL TORQUE	
11	RATED SPEED	
12	ROTATION	BI-DIRECTIONAL
13	OPERATING ALTITUDE	
14	AMBIENT TEMP.	-40°F +130°F
15	SPECIAL TEMP.	
16	RADIO NOISE FILTER	NOT REQ'D.
17	THERMAL PROTECTION	
18	OIL PROOF	YES
19	EXPLOSION PROOF	YES
20	BRAKE (STOPS)	FROM NO LOAD SPEED IN 40 REV. OR LESS
21	BRAKE (STATIC)	
22	CLUTCH-BRAKE	
23	CLUTCH	
24	LIFE	
25	DUTY CYCLE (MIN.)	12 SEC. ON -1 MIN OFF
26	OPERATIONAL ALT.	S.L. - 25,000
27	BRAKE SHALL RELEASE	AT 18V OR LESS
28	SHAFT END PLAY	.005 MAX

NOTES CONT'D:

7. WEIGHT OF UNIT ASSY NOT TO EXCEED 2.8 LBS.
8. MOTOR WITH INTERNAL BRAKE SHALL MEET OR EXCEED ALL RELIABILITY, MANUFACTURING, & MAT'L REQUIREMENTS AS SPECIFIED BY CESSNA SPECIFICATION CONTROL DWG. NO. 9910055.
9. SURFACE TO BE FLAT & SQUARE WITH SHAFT WITHIN .003 TIR AT ø1.562 TO .006 TIR AT ø3.00.
10. AMPERAGE SHALL NOT EXCEED VALUES PLOTTED FOR GIVEN RETRACTION TORQUE AT 28 VDC
11. BRAKE SHALL BE RESISTANT TO APPLICATION AT NEGATIVE TORQUE CONDITIONS & IF SO ENGAGED SHALL RELEASE AT NOT LESS THAN 0.0 LB-IN AS EXTERNAL LOAD BECOMES REISISTIVE.
12. EXTERNAL SURFACES SHALL BE CHEMICALLY FILMED, PAINTED OR OTHERWISE PROTECTED FROM CORROSION.
13. NAMEPLATE SHALL CONFORM TO S-1440-1
14. SEE SHEET 2 FOR -3 CONFIG. PERFORMANCE CURVE

DASH NO.	NEXT ASSY.	USED ON APPLICATION

-5

QTY	ITEM	SIZE	PART NUMBER	DESCRIPTION	MATERIAL	MATL SPEC	FINISH	FINISH SPEC

LIST OF MATERIALS

DIMENSIONAL SYMBOLS PER MIL-STD-8B
FLATNESS & STRAIGHTNESS
ANGULARITY
PERPENDICULARITY
PARALLELISM
CONCENTRICITY
TRUE POSITION
ROUNDNESS
SYMETRY
(M) ONLY MAXIMUM MATERIAL CONDITION
(S) ONLY REGARDLESS OF FEATURE SIZE

UNLESS OTHERWISE SPECIFIED
1. DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/16
XX DEC ±.030
XXX DEC ±.010
ANGLES ±2° OF HOLES AND LOCATE
2. SURFACE ROUGHNESS PER MIL-STD-10
3. REMOVE BURRS & BREAK SHARP EDGES .005 MAX
4. INTERNAL RADII .005 TO .015
THREADS
5. STRAIGHT SCREW MIL-S-7742 TAPERED PIPE MIL-P-7105
DO NOT SCALE DRAWING
6. ALL DIMENSIONS BEFORE PLATING

SIGNATURES		DATE
DR	D.D.D.	1-31-69
CHK		
ENGR		
APPR		
NEXT ASSY		

AERO SPACE CONTROLS CORPORATION
WICHITA, KANSAS

TITLE
MOTOR OUTLINE
28 V.D.C. FLAP

CODE IDENT NO. | SIZE D | DWG NO. FS30

SCALE 2:1 | UNIT WT | LBS | SHT 2 OF 2