– NOTICE –
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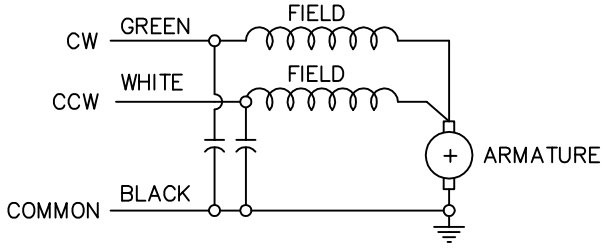
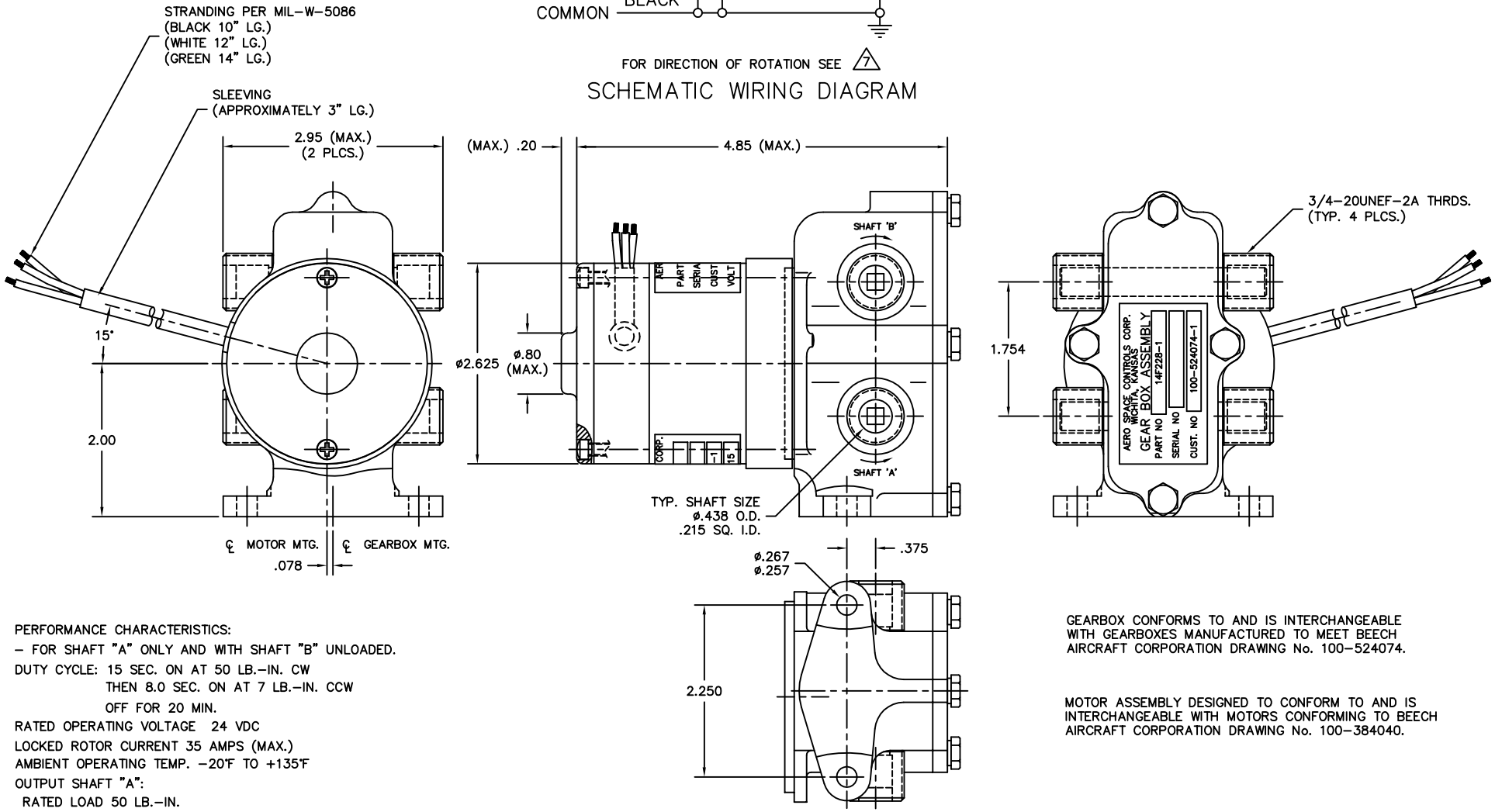
REVISIONS

C.O. NO.	REV.	REVISION DESCRIPTION	DATE	APPD.
727	C	REDRAWN TO CAD.	8–14–97	D.S.
ASC2998	D	UPDATE MISC. F.O.D. FEATURES TO COINCIDE WITH ASS'Y. DWG. 16GFS38. SEE ECO FOR ADDITIONAL F.O.D. INFORMATION BEING ADDED.	1–26–05	D.S.



FOR DIRECTION OF ROTATION SEE 7

SCHEMATIC WIRING DIAGRAM



PERFORMANCE CHARACTERISTICS:
– FOR SHAFT "A" ONLY AND WITH SHAFT "B" UNLOADED.
DUTY CYCLE: 15 SEC. ON AT 50 LB.–IN. CW
THEN 8.0 SEC. ON AT 7 LB.–IN. CCW
OFF FOR 20 MIN.
RATED OPERATING VOLTAGE 24 VDC
LOCKED ROTOR CURRENT 35 AMPS (MAX.)
AMBIENT OPERATING TEMP. –20°F TO +135°F
OUTPUT SHAFT "A":
RATED LOAD 50 LB.–IN.
RATED SPEED AT RATED LOAD 80 RPM. CCW.

GEARBOX CONFORMS TO AND IS INTERCHANGEABLE WITH GEARBOXES MANUFACTURED TO MEET BEECH AIRCRAFT CORPORATION DRAWING No. 100–524074.

MOTOR ASSEMBLY DESIGNED TO CONFORM TO AND IS INTERCHANGEABLE WITH MOTORS CONFORMING TO BEECH AIRCRAFT CORPORATION DRAWING No. 100–384040.

NOTES CONTINUED:

7 TO VERIFY PROPER DIRECTION OF ROTATION:
A. CONNECT –28 VDC TO BLACK WIRE
B. CONNECT +28 VDC TO GREEN WIRE
C. OBSERVE HIGH SPEED SHAFT 'B' FOR CW ROTATION AND SHAFT 'A' FOR CCW ROTATION
D. CONNECT –28 VDC TO BLACK WIRE
E. CONNECT +28 VDC TO WHITE WIRE
F. OBSERVE HIGH SPEED SHAFT 'B' FOR CCW ROTATION AND SHAFT 'A' FOR CW ROTATION

DASH NO.	NEXT ASSY.	USED ON
		100–524073–1

APPLICATION

QTY.	ITEM	SIZE	PART NUMBER	DESCRIPTION	MATERIAL	MAT'L. SPEC.	FINISH	FINISH SPEC.
			–1	GEARMOTOR ASSEMBLY				

LIST OF MATERIALS

DIMENSIONAL SYMBOLS PER ASME Y14.5
▱ FLATNESS
— STRAIGHTNESS
∠ ANGULARITY
⊥ PERPENDICULARITY
// PARALLELISM
◎ CONCENTRICITY
⌖ TRUE POSITION
○ CIRCULARITY (ROUNDNESS)
⌯ SYMMETRY
Ⓜ (MMC) MAXIMUM MATERIAL CONDITION
Ⓢ (RFS) REGARDLESS OF FEATURE SIZE

UNLESS OTHERWISE SPECIFIED
1. DIMENSIONS ARE IN INCHES – TOLERANCES ON –
FRACTIONS ± 1/16
XX DEC ±.030
XXX DEC ±.010
ANGLES ±0° 30'
DRILL HOLES AND 10387
2. SURFACE ROUGHNESS PER MIL–STD–10
3. REMOVE BURRS & BREAK SHARP EDGES .010 MAX.
4. INTERNAL RADII .005 TO .015
5. STRAIGHT SCREW MIL–S–7742 THREADS TAPERED PIPE MIL–P–7105
6. ALL DIMENSIONS BEFORE PLATING

SIGNATURES	DATE
DR. D.O.D.	11–4–70
CHK.	
ENGR.	
APPD.	
NEXT ASSY:	

DO NOT SCALE DRAWING

AERO SPACE CONTROLS CORPORATION
WICHITA, KANSAS

TITLE
GEARMOTOR ASSEMBLY
– OUTLINE –

CODE IDENT NO. | SIZE C | DWG NO. GFS38

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