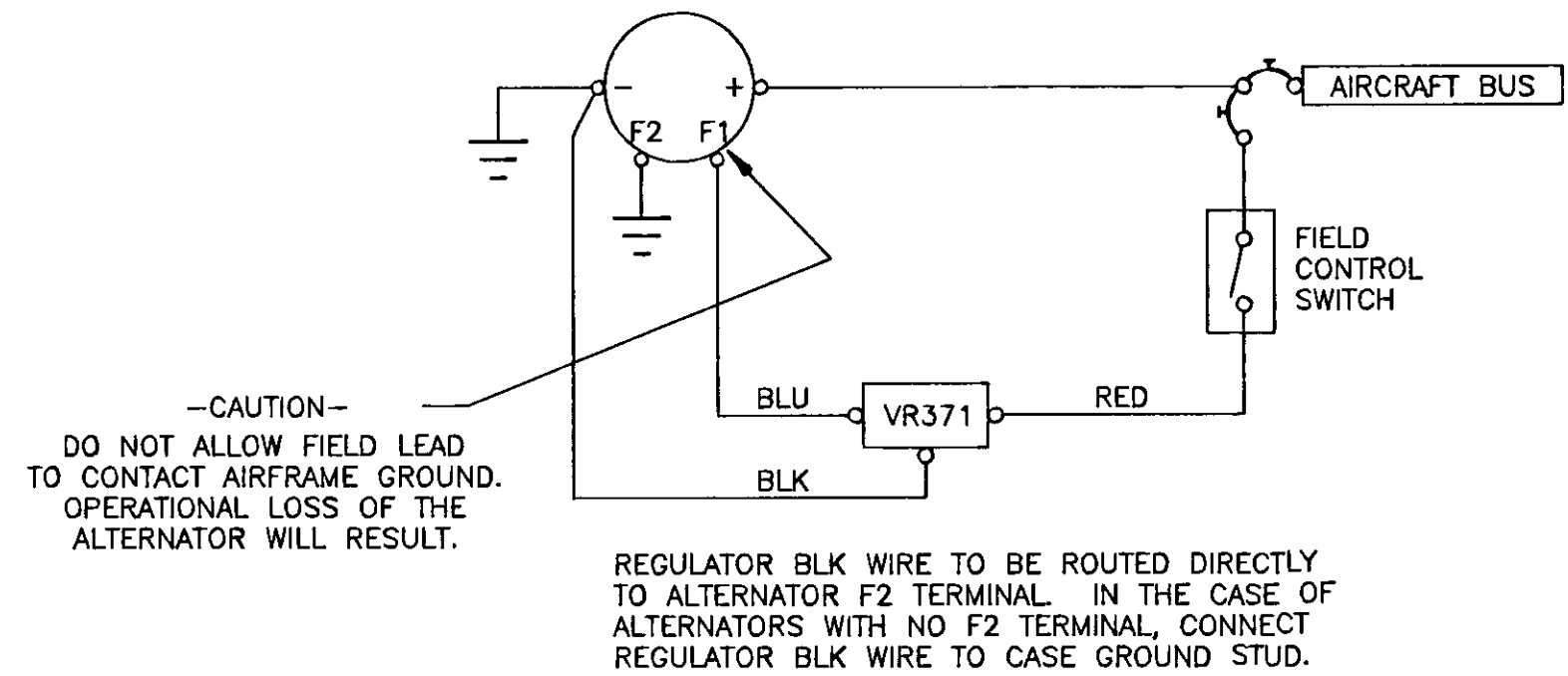


ELECTROSYSTEMS VR371 (14 VOLT) SPECIFICATIONS:

- A. RATED VOLTAGE 14.0 VDC.
- B. MAXIMUM FIELD CURRENT 5.0 AMPS.
- C. REGULATION +/- 2.5% OF SETTING, 0 TO FULL LOAD WITHIN THE SPEED AND LOAD RANGE OF THE ALTERNATOR.
- D. VOLTAGE REGULATOR PERFORMANCE IN ACCORDANCE WITH SAE AS 8020.
- E. OVERVOLTAGE TRIP IN ACCORDANCE WITH RTCA/DO-160C, SECTION 16, CAT. "B".
- F. OUTPUT FIELD WIRE GROUND FAULT PROTECTED.
- G. TEMPERATURE: -55°C TO +70°C.
- H. ALTITUDE: 30,000 FT. MSL.
- I. DUTY: CONTINUOUS.
- J. WEIGHT: .3 LBS.

TYPICAL SYSTEM INTERCONNECT



NOTES:

1. INSTALLATION: UNIT DESIGNED FOR CABIN INSTALLATION. NOT TO BE EXPOSED TO WATER EXCEPT FOR CONDENSATION.
2. UNIT DELIVERS A CONSTANT FREQUENCY, PULSE WIDTH MODULATED, FIELD POWER CONTROL TO MAINTAIN ALTERNATOR OUTPUT VOLTAGE.
3. OVERVOLTAGE PROTECTION WILL TRIP OFF THE REGULATED OUTPUT AFTER THE VOLTAGE REGULATOR FAILS TO MAINTAIN THE CORRECT LEVEL IN ACCORDANCE WITH RTCA/DO-160C. UNIT WILL REMAIN LOCKED OFF UNTIL POWER IS MOMENTARILY REMOVED AND REINSTATED.
4. UNIT IS INTERNALLY PROTECTED AGAINST DAMAGE TO THE OUTPUT STAGE IN THE EVENT OF A GROUND FAULT TO THE FIELD WIRE. THE UNIT WILL BE LOCKED OFF UNTIL POWER IS MOMENTARILY REMOVED AND REINSTATED.
5. RFI EMISSIONS: RTCA/DO-160C, SECTION 21, CAT. "A".

ORIGINAL

			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (MILLIMETERS) AND APPLY AFTER HT TREAT AND PLATING XXX DEC ±.003 (13MM) XX DEC ±.015 (33MM) ANGLES ±.1° BREAK ALL EDGES AND MACH ALL INSIDE CORNER FILLETS .015 MAX SURFACE FINISH 125/	GEOMETRIC SYMBOLS PER ANSI Y14.5	<p>Airport Complex P.O. Box 273 Fort Deposit, Alabama USA 36032</p>
C	8/31/94	T.B.C.	THIS DRAWING CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO ELECTRO- SYSTEMS, INC. THIS DRAWING IS FURNISHED ON THE UNDERSTANDING THAT THE DRAWING AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS EXCEPT WITH THE WRITTEN CONSENT OF ELECTROSYSTEMS, INC. WILL NOT BE USED TO THE DETRIMENT OF ELECTROSYSTEMS, INC. AND WILL BE RETURNED UPON REQUEST BY ELECTROSYSTEMS, INC.	▭ FLATNESS — STRAIGHTNESS ○ ROUNDNESS ⊘ CYLINDRICITY ▭ PROFILE OF A SURFACE ⊥ PERPENDICULARITY ⊙ POSITION ⊕ CONCENTRICITY ≡ SYMMETRY ∠ ANGULARITY // PARALLELISM ⊘ CIRCULAR RUNOUT	
B	7/11/94	SMS			PART NO./MODEL: VR371 (14V)
A	6/23/94	SMS			CODE IDENT SH 1 OF 1
NEW	5/2/94	SMS			DRAWING NO. 20091
LET	DATE	BY			REV. C
REVISION			SCALE:	NEXT ASSY:	