

I.O ELECTRICAL

1.1 INPUT VOLTAGE

1.2 OPERATING CURRENT _____

1.3 OPERATING FREQUENCY—

1.4 CONTACT FORM RATING AND LIFE—

1.4.1 CONTACT FORM —

1.4.2 CONTACT RATING (28 VDC) —

1.4.3 CONTACT LIFE AT RATED RESISTIVE LOAD —

1.5 SENSING SPECIFICATION (NOTE 4 AND 6)

1.5.1 UNDER VOLTAGE

1.5.2. OVERVOLTAGE

115.3 UNDERFREQUENCY

1.5.4 OVERFREQUENCY

1.5.5 DIFFERENTIAL (HYSTERESIS)

1.6 PHASE ROTATION

1.7 OPERATE TIME

1.8 RELEASE TIME

1.9 DIELECTRIC WITHSTANDING VOLTAGE

1.10 INSULATION RESISTANCE AT 500 VDC

2.0 ENVIRONMENTAL

2.1 AMBIENT TEMPERATURE — -55°C TO $+85^{\circ}\text{C}$

2.2 VIBRATION ————— 0.06" DOUBLE AMPLITUDE 5 TO 80 HZ

20 G'S 80 TO 2000 HZ

2.3 SHOCK ————— 50G'S, 11±1MS, 1/2 SINE, 3 AXES

2.4 ACCELERATION ——— 20G'S IN ANY AXIS

3.0 MECHANICAL

3.1 WEIGHT 160ZS

3.2 FINISH

3.3 ENCLOSURE — HERMETIC SEAL

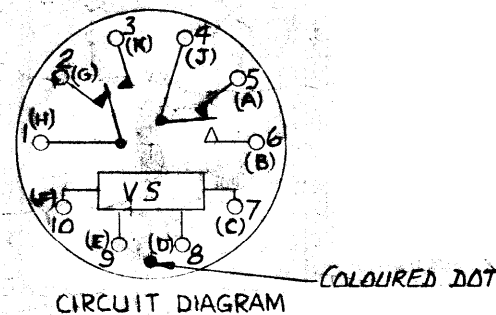
NOTES (CONTD):-

4. THE ACCURACY SPECIFICATIONS APPLY FOR ANY COMBINATION OF OPERATING TEMPERATURE AND VOLTAGE.

5. TERMINALS 7,8,9,10 MUST BE CONNECTED TOGETHER DURING THIS TEST, DIELECTRIC WITHSTANDING VOLTAGE & INSULATION RESISTANCE ARE MEASURED BETWEEN ALL MUTUALLY INSULATED TERMINALS & BETWEEN ALL TERMINALS & CASE (TERMINALS C,D,E,F MUST BE CONNECTED TOGETHER ON -3 VERSION)

6 SPECIFICATIONS ARE BASED ON A TRUE SINUSOIDAL INPUT

2 TRANSIENT OPERATING RANGE: - LIMIT 2 OF FIG 2 OF MIL-STD 704A



FIGURES IN BRACKETS REFER TO -3 VERSION

H	1	SWITCH	#1 COMMON
G	2	"	#1 N.C.
K	3	"	#1 N.O.
J	4	"	#2 COMMON
A	5	"	#2 N.C.
B	6	"	#2 N.O.
C	7	PHASE A	
D	8	"	B
E	9	"	C
F	10	NEUTRAL	

NOTES - 1. THE OUTPUT RELAY WILL ENERGISE WHEN ALL OF THE FOLLOWING CONDITIONS EXIST -

(a) THE VOLTAGE OF ALL THREE PHASES IS WITHIN THE UNDER & OVER VOLTAGE LIMITS

(b) FREQUENCY IS WITHIN THE UNDER & OVER FREQUENCY LIMITS.

(C) PHASE ROTATION IS A, B, C.

2 THE OUTPUT RELAY WILL BE IN THE DE-ENERGISED STATE WHEN ANY OR ALL OF THE ABOVE CONDITIONS ARE NOT MET.

3 THE RELAY WILL CHANGE STATE (ENERGISE OR DE-ENERGISE) IN 2 SECONDS $\pm 10\%$

SOURCE CONTROL DRAWING

DO NOT SCALE DWG				QUANTITY REQ PER		ZONE	SHEET	CODE	PART NO.	DESCRIPTION	MATERIAL	MATL SPEC	FINAL TREAT	PROT FINIS
						REQUIREMENTS-UNLESS OTHERWISE SPECIFIED GENERAL LIMITS 1. DIMS ARE IN INCHES 2. SURFACE ROUGHNESS 125 X MAX 3. REMOVE SHARP EDGES .015 4. EDGE FINISHING OF ALUM PARTS IN ACCORDANCE WITH P.P.S. 27-02 5. THREADS IN ACCORDANCE WITH MIL-27742 PRODUCTION PROCESS STANDARDS (P.P.S.) AND OTHER STANDARDS LISTED ON DRS IN ADDITION TO THOSE STANDARDS CALLED UP IN THE FIELD OF THIS DRAWING SHALL FORM PART OF THIS DRAWING FOR ALL MANUFACTURING AND QUALITY REQUIREMENTS.		MOD NO.	LIST OF MATERIAL					
								DRAWN <i>gwick</i> 30.3-73 CHECKED <i>ews</i> 9.11.73 APPROVED <i>ews</i> 9.11.73 STRESS <i>ews</i> 26.4.73 STD., M.S.P. 13.9.73 VALUE ENG. <i>ews</i> 18.4.73 CH. DRAFTN. <i>ews</i> 29.5.73	THE DE HAVILLAND AIRCRAFT OF CANADA LIMITED DOWNSVIEW ONTARIO DRAWING TITLE GROUND POWER PROTECTION UNIT AC					
NEXT ASS'Y USED ON NO. REQ. PER A/C EFFY				CODE PROTECTIVE TREATMENT		DE HAVILLAND PRODUCTION SPECN.		DWG SIZE D 71867 DSC 141 SCALE 1 WGT CALC ACTUAL SHEET						
PART NO.								RELEASE REV: F						