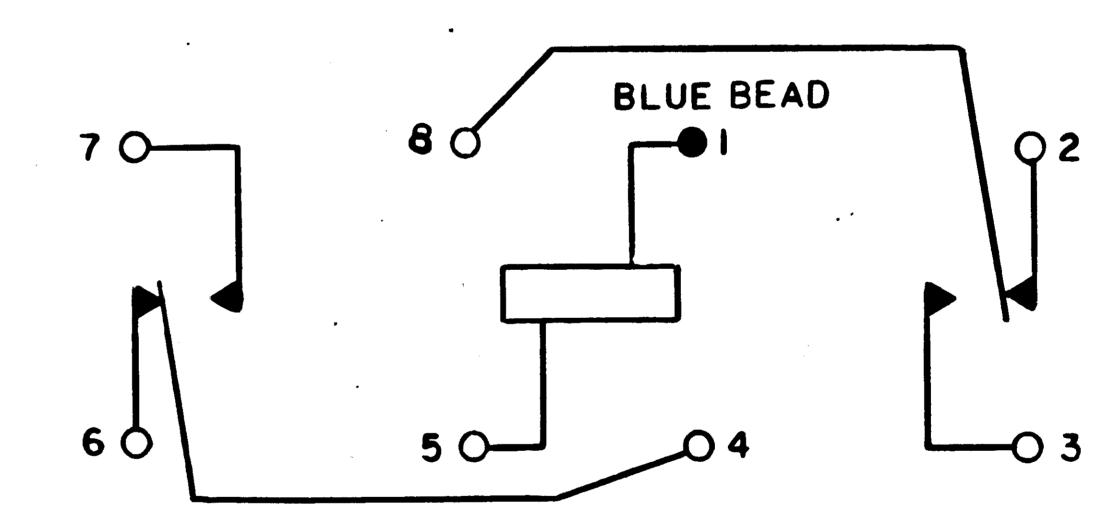


REVISIONS 4870101 DESCRIPTION INITIAL RELEASE CLASS A REVISED PER TDRR 16051 LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION. OR CONVEY-ING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO. REQUIREMENTS: (CONTINUED) (5) ACCELERATION: 20 G (6) ALTITUDE: 70,000 FEET (7) HUMIDITY: 10 CYCLES (8) (SALT SPRAY TESTS AS REFERENCED IN MIL-R-5757 ARE NOT APPLICABLE.) F. CONTACT FORM AND SWITCHING ACTION: 2 FORM C CONTACTS (2 PDT) G. COIL VOLTAGE: SEE TABLE I H CONTACT RATINGS: (MAXIMUM AMPERES PER POLE) NORMALLY OPEN OR NORMALLY CLOSED. J. COIL DISSIPATION: 1.5 WATTS MAX AT +125°C K. CASE MATERIAL: CUPRO-NICKEL 28 VDC 115 VRMS, 60 CPS 115 VRMS, 400 CPS 115/200 VRMS, 60 CPS 115/200 VRMS, 400 CPS NOTE 2 NOTE 1 (SHEET 3) 0.75 INDUCTIVE 0.5 MINIMUM 0.1 4. SPECIAL CONDITIONING: A. MISS TEST: (1) THE MANUFACTURER SHALL SUBJECT ALL RELAYS TO 5000 OPERATIONS UNDER THE FOLLOWING CONDITIONS: (a) 30 MICROAMPERES MAXIMUM CURRENT BLUE BEAD (b) 50 MILLIVOLTS MAXIMUM VOLTAGE (c) 50 DHMS MAXIMUM CONTACT RESISTANCE PER CONTACT PAIR. (d) RATED COIL VOLTAGE APPLIED (e) 5 CPS MAXIMUM SWITCHING SPEED (2) CONTACT RESISTANCE, PULL-IN AND DROP-OUT VOLTAGE SHALL BE MEASURED BY THE MANUFACTURER AFTER THE 5000 CYCLE TEST AND JUST PRIOR TO SHIPMENT. CERTIFICATION OF . THESE MEASUREMENTS SHALL BE FURNISHED TO THE USER. THE MANUFACTURER SHALL ALSO FURNISH THE USER A TABULA-SCHEMATIC A TION SHOWING THE NUMBER OF RELAYS SUBJECTED TO THE 5000 CONTACTS SHOWN DE-ENERGIZED CYCLE TEST, THE NUMBER OF RELAYS FAILING DURING THE 5000 (NUMBERS FOR REF. ONLY) CYCLE TEST AND THE TIME OR CYCLE TO FAILURE. ONE COPY OF THIS INFORMATION SHALL BE FURNISHED WITH EACH SHIP-MENT OF PARTS. NOTES: 1. INDUCTIVE LOAD LIMITED BY  $\leq .008$  SEC  $\frac{L}{R}$ , WL = 100 M j NOMENCLATURE OR PART OR DESCRIPTION IDENTIFYING NO. POWER FACTOR 50% FOR AC LIST OF MATERIALS 2. ALL AC RATINGS ARE GIVEN FOR UNGROUNDED CASE ONLY. MANNED SPACECRAFT CENTER UNLESS OTHERWISE SPECIFIED INSTRUMENTATION LAB DIMENSIONS ARE IN INCHES CAMBRIDGE. MASS NAS 9-497 HOUSTON, TEXAS TOLERANCES ON **DECIMALS** RELAY, ARMATURE (GENERAL PURPOSE) DO NOT SCALE THIS DRAWING MATERIAL SPECIFICATION CONTROL DRAWING NASA DRAWING NO. HEAT TREATMENT USED ON **NEXT ASSY** FINAL FINISH **APPLICATION** 

REVISIONS DATE APPROVAL DESCRIPTION

TADIE

	· ·		-			TABLE I	3			
			NOMINAL	PULL-IN	VOLTAGE (VO	OLTS DC)			COIL RESISTANCE	PIN LENGTH
DASH NO.	SCHEMATI	FIGURE	RATED COIL	MAX (OVER	MINIMUM	MIN (OVER	MAX (OVER	MIN (OVER	RANGE	"A"
	NO.	NO.	VOLTAGE	AMBIENT TEMP		AMBIENT TEMP	AMBIENT TEMP	AMBIENT TEMP		
	•		(VOLTS DC)	RANGE)	(AT +25°C)	RANGE)	RANGE)	RANGE)	(OHMS)	
-1	A	1	28,0	18.0	9.0	5.0	14.0	1.0	745 TO 990	1.00 MIN
-2		2	28.0	18.0	9.0	5.0	14.0	1.0	745 TO 990	1.00 MIN
-3	+ -	1 3	28.0	18 N	9.0	5.0	14.0	1.0	745 TO 990	1.00 MIN
	1 1	1	28.0	18.0	9.0	5.0	14.0	1.0	745 TO 990	1.00 MIN
<u>-4</u>	+ -	1 -	12.0	9.3	4.1	2.3	7.2	0.41	170 TO 235	1.00 MIN
-5	<u> </u>		12.0	9.3	4.1	2.3	7.2	0.41	170 TO 235	1.00 MIN
-6 -7	<del>  A</del>	3	12.0	9.3	4.1	2.3	7.2	0.41	170 TO 235	1.00 MIN
	<u> </u>	3	المراب والمتناف المراب والمساور والمراب	9.3	4.1	2.3	7.2	0.41	170 TO 235	1.00 MIN
-8	A	4	12.0	18.0	9.0	5.0	14.0	1.0	745 TO 990	.210/.190
-9	1 B	1 5	28.0	10.0	1 /. 5				And the second s	<u> </u>



SCHEMATIC B

THE PART NUMBER IS THE DRAWING NUMBER PLUS THE APPLICABLE DASH NUMBER.

MOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION. THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESMISSIBILITY NOR ANY OBLIGATION WHATSOEVER: AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT WAY IN ANY WAY BE RELATED THERETO.

	••		CONTACTS SHOWN DE-ENERGIZED  (NUMBERS FOR REF ONLY)						
		•	QTY REQD	PART OR IDENTIFYING NO.	· ·	NOMENCLATURE OR . DESCRIPTION	FIND NO.		
				LIST OF MATERIALS					
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	MIT INSTRUMENTATION LAB CAMBRIDGE. MASS. NAS 9-497  CONTRACT  DRAWN R.U. Turner DATE  CHECKED Ed Foster 8 Jul 64  APPROVAL BERGENTMAL & DEC 64  APPROVAL J. Marin 12/22/44						
		FRACTIONS DECIMALS ANGLES  ± ± ±			KELAT ARMATURE				
*		MATERIAL							
		HEAT TREATMENT	NASA APF	PROVAL (1) Phine 12-22-64	CODE IDENT NO. SIZ	NASA DRAWING NO. 101078			
NEXT ASSY	USED ON	FINAL FINISH							
APPLIC	ATION		MIT APPR	ROVALULIANTE 22 19664	SCALE - WT	SHEET	4 OF 4		
3	÷		2	- The state of the					