

**REVISIONS**

SYMBOL	DESCRIPTION	DATE	APPROVAL
-	RELEASED	7/21/92	<i>[Signature]</i>

**SHEET REVISION STATUS**

SH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REV	--	--	--																	
SH	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REV																				

ORIGINATOR <i>T. Perry</i> T. Perry/Paramax	DATE 7/1/92	FSC: 5945
APPROVED <i>[Signature]</i> S. Archer-Davies/Paramax	7/1/92	Relays, Electromagnetic, Hermetically Sealed, 2PDT (2C), Latching, Low Level to 1 Ampere (TO-5 Enclosure)
CODE 311 APPROVAL P. Jones <i>[Signature]</i>	7-20-92	
CODE 311 SUPERVISORY APVL G. P. Kramer, Jr. <i>[Signature]</i>	7/20/92	
ADDITIONAL APPROVAL		
		S-311-P-754/01

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MARYLAND 20771

CAGE CODE: 25306

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## GSFC DETAIL SPECIFICATION

RELAYS, ELECTROMAGNETIC, HERMETICALLY SEALED, 2PDT (2C),  
LATCHING, LOW LEVEL TO 1 AMPERE (TO-5 ENCLOSURE)

The requirements for procuring the relays described herein shall consist of this specification and the current revision of GSFC S-311-P-754.

Table I. Part Numbers and characteristics

GSFC Part Number	Similar to MIL Part Number	Terminal Type	Coil Voltage (Nominal)	Pickup Voltage (max.)	Dropout Voltage (min.)	DC Coil Resistance (ohms)
G311P754/01-001	M39016/12-032	Wire Leads	6.0 Vdc	3.5 Vdc	N/A	120 ± 10%
G311P754/01-002	M39016/12-033	Wire Leads	9.0 Vdc	5.3 Vdc	N/A	280 ± 10%
G311P754/01-003	M39016/12-034	Wire Leads	12.0 Vdc	7.0 Vdc	N/A	500 ± 10%
G311P754/01-004	M39016/12-035	Wire Leads	18.0 Vdc	10.5 Vdc	N/A	1130 ± 10%
G311P754/01-005	M39016/12-036	Wire Leads	26.5 Vdc	14.2 Vdc	N/A	2000 ± 10%

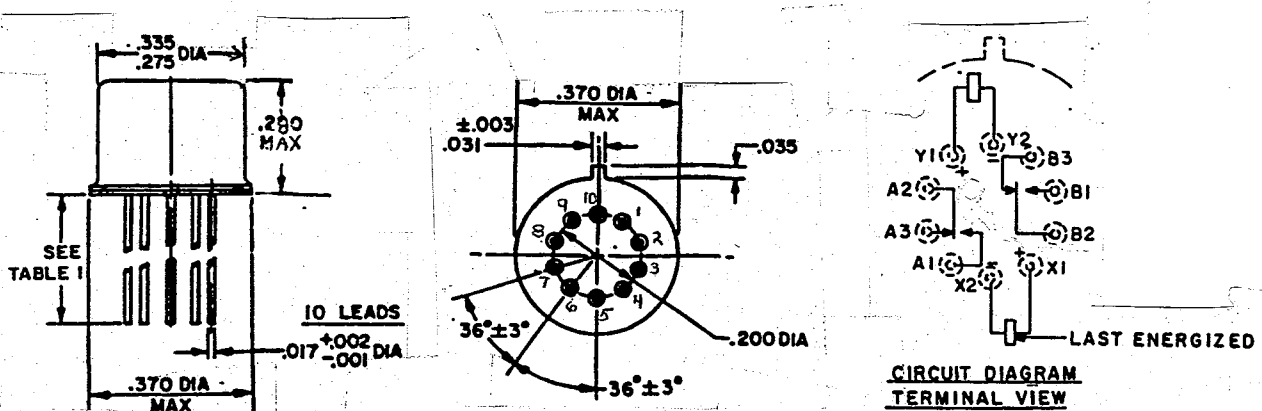


Figure 1. Configuration and circuit diagram.

Notes:

1. Relays must be provided with unpainted enclosures.
2. Terminal numbers in circuit diagram are for reference only

REQUIREMENTS:

Operating Temperature Range: -65°C to +125°C

Other: All requirements (contact ratings, life test requirements, environmental data, etc.) shall be as specified in MIL-R-39016/12 except as detailed or modified herein.

Seal

Fine leak test ..... 1 X 10<sup>-8</sup> cc/sec max.  
Gross leak test ..... not applicable

Electrical measurements

Insulation resistance ..... 10,000 Mohm min. @ 500 Vdc  
Dielectric strength ..... 500 V<sub>rms</sub>, 60 Hz  
Coil resistance ..... see Table I  
Pickup voltage (latch & reset) ..... see Table I  
Dropout voltage ..... not applicable  
Contact resistance ..... 125 milliohms max.  
Operate time (latch & reset) ..... 2 ms max.  
Release time ..... not applicable  
Bounce time ..... 2 ms max.  
Coil transient suppression ..... not applicable  
Neutral screen ..... applicable

Vibration

Sinusoidal ..... 30 g (55 - 3000 Hz)  
Random ..... not applicable

High temperature soak ..... applicable  
High temperature run-in ..... not applicable  
Low temperature run-in ..... applicable  
Room temperature run-in ..... applicable

Seal

Fine leak test ..... 1 x 10<sup>-8</sup> cc/sec max.  
Gross leak test ..... applicable