REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVAL
—	RELEASED	7/21/92	S.C.J.

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 T. D. Perry T. Perry/Paramax	DATE 6/23/92	FSC: 5945
APPROVED S. Archer-~~Davies~~/Paramax	6/23/92	Relays, Electromagnetic, Hermetically Sealed, 2PDT (2C), Low Level to 1 Ampere (TO-5 Enclosure)
CODE 311 APPROVAL P. Jones/GSFC	6/30/92	
CODE 311 SUPERVISORY APVL G. P. Kramer, Jr./GSFC	7/20/92	
ADDITIONAL APPROVAL		S-311-P-754/03

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

CAGE CODE: 25306

GSFC DETAIL SPECIFICATION

RELAYS, ELECTROMAGNETIC, HERMETICALLY SEALED, 2PDT (2C), 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)
G311P754/03-001	M39016/9-014	Wire Leads	6.0 Vdc	3.5 Vdc	0.28 Vdc	98 ± 10%
G311P754/03-002	M39016/9-015	Wire Leads	9.0 Vdc	5.3 Vdc	0.54 Vdc	220 ± 10%
G311P754/03-003	M39016/9-016	Wire Leads	12.0 Vdc	7.0 Vdc	0.63 Vdc	390 ± 10%
G311P754/03-004	M39016/9-017	Wire Leads	18.0 Vdc	10.5 Vdc	0.91 Vdc	880 ± 10%
G311P754/03-005	M39016/9-018	Wire Leads	26.5 Vdc	14.2 Vdc	1.37 Vdc	1560 ± 10%

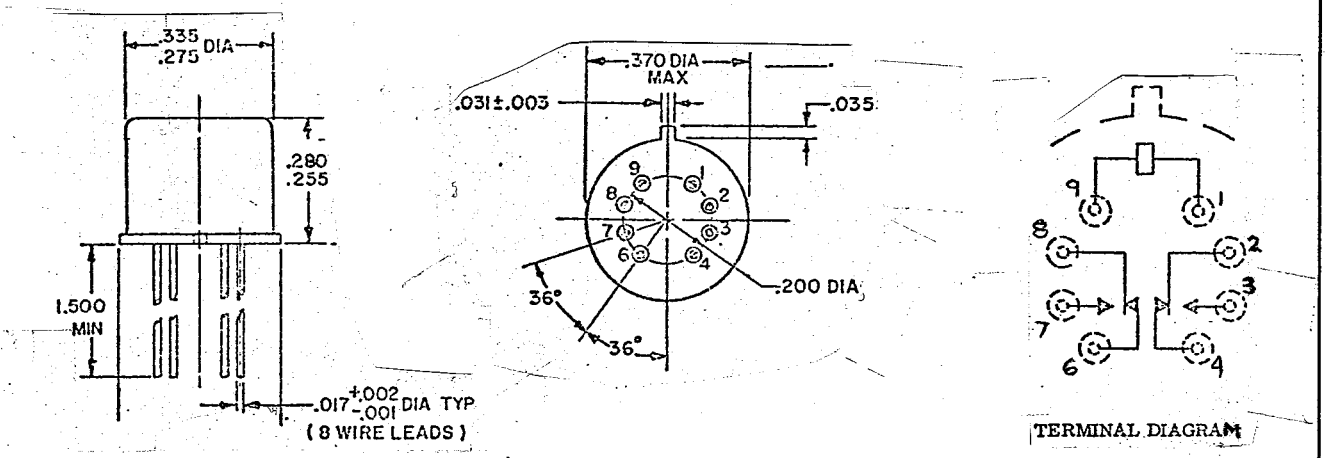

Figure 1. Configuration and circuit diagram.

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-39016/9 except as detailed or modified herein.

Seal	
Fine leak test	1 X 10^{-8} cc/sec max.
Gross leak test	not applicable
Electrical measurements	
Insulation resistance	5,000 Mohm min. @ 100 Vdc
Dielectric strength	500 V_{rms}, 60 Hz
Coil resistance	see Table I
Pickup voltage	see Table I
Dropout voltage	see Table I
Contact resistance	100 milliohms max.
Operate time	2 ms max.
Release time	1.5 ms max.
Bounce time	2 ms max.
Coil transient suppression	not applicable
Neutral screen	not 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^{-8} cc/sec max.
Gross leak test	applicable