

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 T. Perry/Paramax	DATE 6/23/92	FSC: 5945
APPROVED <i>[Signature]</i> S. Archer-Davies/Paramax	6/23/92	Relays, Electromagnetic, Hermetically Sealed, 2PDT (2C), Low Level to 1 Ampere, Internal Diode for Coil Transients, (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-754/04

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

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GSFC DETAIL SPECIFICATION

RELAYS, ELECTROMAGNETIC, HERMETICALLY SEALED, 2PDT (2C), LOW LEVEL TO 1 AMPERE, INTERNAL DIODE FOR COIL TRANSIENTS (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)
G311P754/04-001	M39016/15-077	Wire Leads	6.0 Vdc	3.5 Vdc	0.28 Vdc	98 ± 10%
G311P754/04-002	M39016/15-078	Wire Leads	9.0 Vdc	5.3 Vdc	0.54 Vdc	220 ± 10%
G311P754/04-003	M39016/15-079	Wire Leads	12.0 Vdc	7.0 Vdc	0.63 Vdc	390 ± 10%
G311P754/04-004	M39016/15-080	Wire Leads	18.0 Vdc	10.5 Vdc	0.91 Vdc	880 ± 10%
G311P754/04-005	M39016/15-081	Wire Leads	26.5 Vdc	14.2 Vdc	1.37 Vdc	1560 ± 10%

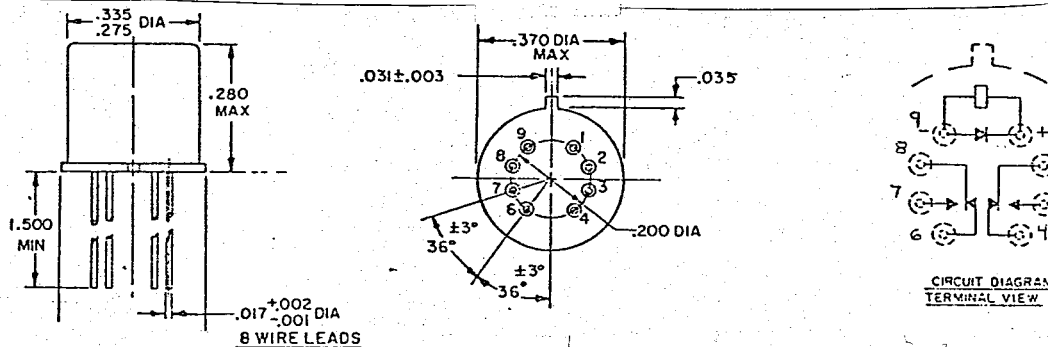


Figure 1. Configuration and circuit diagram.

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-39016/15 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 4 ms max.
Bounce time 2 ms max.
Coil transient suppression applicable
Neutral screen not applicable

Vibration

Sinusoidal 20 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