

REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVAL
-	RELEASED	7/21/92	EC-JL

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 T. Perry/Paramax		DATE 7/17/92	FSC: 5945
APPROVED S. Archer-Davies S. Archer-Davies/Paramax		7/17/92	Relays, Electromagnetic, Hermetically Sealed, High Vibration, 2PDT (2C) Low Level to 1 Ampere (TO-5 Enclosure)
CODE 311 APPROVAL P. Jones/GSEC		7-20-92	
CODE 311 SUPERVISORY APVL G. P. Kramer, Jr./GSEC		7/20/92	
ADDITIONAL APPROVAL			S-311-P-754/05

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, HIGH VIBRATION, 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 except failure rate level "M" is not applicable.

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)
G311P754/05-001	N/A	Wire Leads	6.0 Vdc	5.5 Vdc	0.18 Vdc	70 ± 10%
G311P754/05-002	N/A	Wire Leads	9.0 Vdc	8.2 Vdc	0.35 Vdc	155 ± 10%
G311P754/05-003	N/A	Wire Leads	12.0 Vdc	11.0 Vdc	0.41 Vdc	235 ± 10%
G311P754/05-004	N/A	Wire Leads	18.0 Vdc	16.5 Vdc	0.59 Vdc	610 ± 10%
G311P754/05-005	N/A	Wire Leads	26.5 Vdc	22.0 Vdc	0.89 Vdc	1130 ± 10%

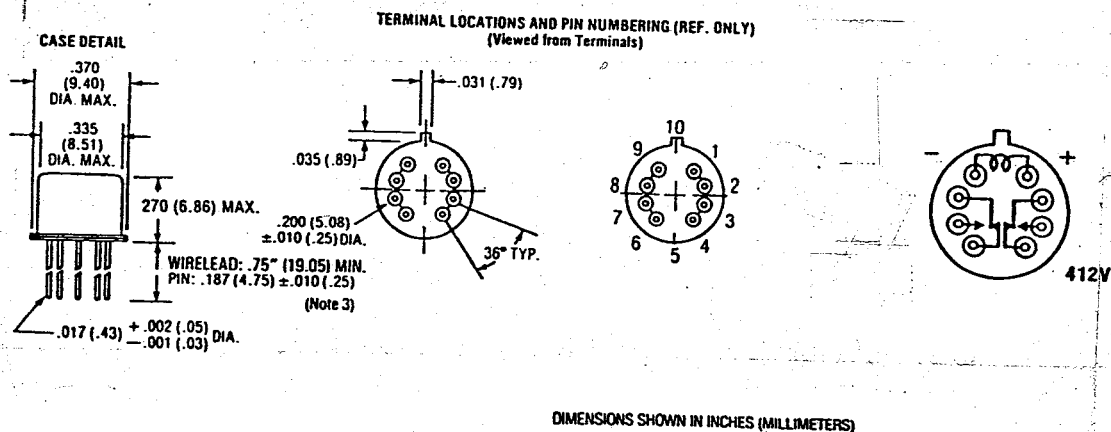


Figure 1. Configuration and circuit diagram.

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

Contact Load Ratings:

Resistive - 1 amp/28 Vdc
Inductive - 200 mA/28 Vdc (320 mH)
Lamp - 100 mA/28 Vdc

Coil Operating Power: 620 mw typ. at rated voltage, +25°C

Other Requirements: Consult the Parts Branch Specialist.

Seal

Fine leak test 1 X 10⁻⁸ cc/sec max.
Gross leak test not applicable

Electrical measurements

Insulation resistance 10,000 Mohm min.
Dielectric strength 500 V_{rms}, 60 Hz
Coil resistance see Table I
Pickup voltage see Table I
Dropout voltage see Table I
Contact resistance - initial..... 100 milliohms max.
 - after life..... 200 milliohms max.
Operate time 2 ms max.
Release time 2 ms max.
Bounce time 1.5 ms max.
Coil transient suppression not applicable
Neutral screen not applicable

Vibration

Sinusoidal 50 g (10 - 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