### REVISIONS

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<td>A</td>
<td>Revised per RN A-150 to add additional part numbers, mechanical notes and expanded electrical characteristics.</td>
<td>3/10/08</td>
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**ORIGINAL SIGNATURES ON FILE**

**SHEET REVISION STATUS**

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**ORIGINATOR:**
T. Perry/Paramax

**DATE**
6/23/92

**FSC:** 5945

**APPROVED:**
S. Archer-Davies/Paramax

**DATE**
6/23/92

**CODE 311 APPROVAL:**
P. Jones/GSFC

**DATE**
6/30/92

**CODE 311 SUPERVISORY APPROVAL:**
G. P. Kramer, Jr./GSFC

**DATE**
7/20/92

**ADDITIONAL APPROVAL:**

S-311-P-754/07

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

**CAGE CODE:** 25306
The requirements for procuring the relays described herein shall consist of this specification and the current revision of GSFC S-311-P-754.

Figure 1. Dimensions and configuration.
NOTES:
1. Dimensions are in inches.
3. Unless otherwise specified, tolerance is ±0.010 (0.25 mm).
4. Terminal locating dimensions shown are applicable to all type mounts.
5. The shape of lug terminals is optional.
7. Indicated terminal shall be identified with a contrasting bead.
8. Terminal markings B1 and B3 shall appear on the circuit diagram as a minimum; other terminal markings are for reference only.
9. Relays must be provided with unpainted enclosures.

**Figure 1.** Dimensions and configuration (continued).
Table 1. Dash numbers and characteristics. 1/

<table>
<thead>
<tr>
<th>Dash Number G311P754/07-</th>
<th>Coil Voltage (V dc) 2/</th>
<th>At 25 °C</th>
<th>Over Temperature Range</th>
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<td>Lug</td>
<td>Wire</td>
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<td>001</td>
<td>067</td>
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<td>089</td>
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1/ Each relay possesses high-level and low-level capabilities. However, relays previously tested or used above 10 mA resistive at 6 V dc maximum or peak ac open circuits not recommended for subsequent use in low-level applications.

2/ CAUTION: The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.

Table 2. GSFC and MIL dash number similarities. 1/

<table>
<thead>
<tr>
<th>GSFC Dash Number G311P754/07-</th>
<th>MIL Dash Number M39016/13-/</th>
<th>Similar To</th>
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1/ Procurement is to the GSFC S-311-P-754/07 dash numbers ONLY. MIL dash numbers are for reference only and do not comply with all of the requirements in the GSFC S-311-P-754 and GSFC S-311-P-754/07 specifications.
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-39016/13 except as detailed or modified herein.

Electrical Measurements

- Insulation resistance: 10,000 Mohm min.
- Dielectric strength: 500 V_{rms}, 60 Hz
- Coil resistance: See Table 1
- Pickup voltage: See Table 1
- Dropout voltage: See Table 1
- Contact resistance: 50 milliohms max.
- Operate time: 4 ms max.
- Release time: 4 ms max.
- Bounce time: 1.5 ms max.
- Coil transient suppression: Not applicable
- Neutral screen: Not applicable

Vibration

- Sinusoidal: 30 g (55 – 3,000 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