<table>
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<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>DATE</th>
<th>APPROVAL</th>
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<td>7/21/92</td>
<td>SC.2</td>
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<td>REV</td>
</tr>
<tr>
<td>SH</td>
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<tr>
<td>REV</td>
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</table>

ORIGINATOR
T. Perry/Paramax

DATE
6/23/92

FSC: 5945

APPROVED
S. Archer-Davies/Paramax

Relays, Electromagnetic, Hermetically Sealed, 4PDT (4C), Low Level to 2 Amperes (0.150 inch Terminal Spacing)

CODE 311 APPROVAL
P. Jones/GSF

CODE 311 SUPERVISORY APVL
G. P. Kramer, Jr

ADDITIONAL APPROVAL

S-311-P-754/09

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

CAGE CODE: 25306
GSFC DETAIL SPECIFICATION

RELAYS, ELECTROMAGNETIC, HERMETICALLY SEALED, 4PDT (4C), LOW LEVEL TO 2 AMPERES (0.150 INCH TERMINAL SPACING), PLUG-IN

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

<table>
<thead>
<tr>
<th>GSFC Part Number</th>
<th>Similar to MIL Part Number</th>
<th>Terminal Type</th>
<th>Coil Voltage (Nominal)</th>
<th>Pickup Voltage (max.)</th>
<th>Dropout Voltage (min.)</th>
<th>DC Coil Resistance (ohms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G311P754/09-001</td>
<td>M39016/14-005</td>
<td>Printed Wiring</td>
<td>6.0 Vdc</td>
<td>2.7 Vdc</td>
<td>0.3 Vdc</td>
<td>28 ± 10%</td>
</tr>
<tr>
<td>G311P754/09-002</td>
<td>M39016/14-007</td>
<td>Printed Wiring</td>
<td>12.0 Vdc</td>
<td>5.4 Vdc</td>
<td>0.6 Vdc</td>
<td>115 ± 10%</td>
</tr>
<tr>
<td>G311P754/09-003</td>
<td>M39016/14-002</td>
<td>Printed Wiring</td>
<td>26.5 Vdc</td>
<td>13.5 Vdc</td>
<td>1.5 Vdc</td>
<td>720 ± 10%</td>
</tr>
</tbody>
</table>

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-39016/14 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 .................. 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 .................. 50 milliohms max.
Operate time ......................... 4 ms max.
Release time ........................ 4 ms max.
Bounce time ........................ 2 ms max.
Coil transient suppression .......... not applicable
Neutral screen ....................... not applicable

Vibration
Sinusoidal ......................... 20 g (10 - 2000 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