A. LEAD MATERIAL: LEAD MATERIAL SHALL BE PER TABLE I.

B. MECHANICAL REQUIREMENTS:
(1) LEAD MATERIAL: LEAD MATERIAL SHALL BE PER TABLE I.

C. ELECTRICAL REQUIREMENTS:
(1) COIL CURRENT: PULL-IN AND DROP-OUT IN ACCORDANCE WITH TABLE I.

D. THIS UNIT SHALL MEET THE APPLICABLE REQUIREMENTS OF MIL-R-5757 WITH BETWEEN MUTUALLY INSULATED TERMINALS, OPEN SWITCHING CONTACTS.

E. MARKING:
(4) DIELECTRIC STRENGTH: (a) AT SEA LEVEL: 1000 VOLS DC MINIMUM FOR 5 SECONDS MINIMUM WITHOUT DAMAGE, ARCING OR BREAKDOWN BETWEEN EACH SWITCHING CIRCUIT AND OTHER CIRCUITS, THE COIL AND THE FRAME. 500 VOLS DC MINIMUM FOR 5 SECONDS MINIMUM BETWEEN OPEN CONTACTS.

F. PREPARATION FOR DELIVERY: PACKAGING AND PACKING SHALL BE IN ACCORDANCE WITH MIL-D-70327.

G. CERTIFICATE OF COMPLIANCE WITH 100% MISS TEST.

H. CERTIFIED TEST DATA (FOR EACH RELAY) OF MISS TEST.

I. UNITS SHALL BE HERMETICALLY SEALED.

J. UNITS SHALL BE MARKED.

K. UNITS SHALL BE UNIFORM IN QUALITY AND TEMPER, CLEAN, SOUND, SMOOTH, AND FREE FROM DAMAGED MATERIALS, IMPERFECTIONS, DEFECTS, DAMAGED ENDS, WEAKNESS, SCRAPES, DENTS, GALLS, AND OTHER DEFECTS WHICH ARE NOT IN ACCORDANCE WITH THE BEST PRACTICE.

L. UNITS SHALL BE SYMMETRICALLY POSITIONED WITH RESPECT TO HEADERS.


N. UNITS SHALL BE PER TABLE I.

O. UNITS SHALL BE INSPECTED FOR THIS CHARACTERISTIC.

P. UNITS SHALL BE THE NUMBER OF WEEK OF THE YEAR.

Q. UNITS SHALL BE THE LAST TWO DIGITS OF THE YEAR; NASA DRAWING NUMBER; REVISION LETTER AND DASH NUMBER; SUPPLIERS NAME, LOT NUMBER, AND DATE OF MANUFACTURE.

R. UNITS SHALL BE THE SPECIFICATION CONTROL DRAWING.

S. UNITS SHALL BE THE LAST TWO DIGITS OF THE YEAR, AND THE NASA DRAWING NUMBER, REVISION LETTER AND DASH NUMBER; SUPPLIERS NAME, LOT NUMBER, AND DATE OF MANUFACTURE.

T. MATERIALS LISTED IN NO 1002046. CLASS 2. (6) OPERATE AND RELEASE TIME: EACH 7 MILLISECONDS MAXIMUM AT UNLESS OTHERWISE SPECIFIED HEREIN.

U. THE SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS TO SPECIFICATIONS AS (500 MEGOHMS AT 125 DEGREES CENTIGRADE), CONTACTS AND FRAME.

V. NOTES: WITHOUT DAMAGE, ARCING OR BREAKDOWN BETWEEN EACH SWITCHING CONTACT. 1000 MEGOHMS MINIMUM AT 500 VOLTS DC.
3. DESIGN REQUIREMENTS:

**A. ELECTRICAL RATINGS:**

1. Coil Voltage (Suggested Source): In accordance with Table I.
2. Coil Power: 2.2 Watts maximum at plus 25 degrees centigrade derated to 1.4 Watt at plus 125 degrees centigrade.

**B. CONTACT RATING (PER POLE):** 13 Amperes at 3 Volts DC or 10 Amperes at 115 Volts AC or 0.4 to 0.6 CPS, with resistive load.

**C. CONTINUOUS COIL CURRENT, MAXIMUM:** In accordance with Table I.

**D. CONTACTS:** Shall be capable of switching dry-circuit conditions with the stipulation that the coil power of 2.2 Watts maximum at plus 25 degrees centigrade.

**E. LEAD STRENGTH:** Units shall withstand an axial pull of 3 pounds max.

**F. COIL PULL-IN POWER (SENSITIVITY)**: In accordance with Table I.

**G. B. CONSTRUCTION:**

1. Contact form and switching action: 2 Form C contacts (break before make) double pole, double throw.
2. Contact materials: Silver-Magnesium-Nickel alloy, gold plated.
3. Case material: Cupronickel.

**3. ELECTRICAL REQUIREMENTS:**

2. Standard load: 20 microamperes maximum (resistive) at 20 milliamps.
3. Voltage which shall not exceed 1000 Volts.
4. Operating temperature range: Units shall be capable of operating within the electrical requirements of this specification when exposed to ambient temperatures from minus 65 degrees centigrade to plus 125 degrees centigrade.
5. Thermal shock: Units shall be capable of withstanding thermal shock from minus 65 degrees centigrade to plus 125 degrees centigrade.
6. Salt spray test: Per MIL-R-5757 is not applicable.

**D. SPECIAL CONDITIONS:**

1. The manufacturer shall subject each relay to the miss test as follows:
   - Load shall be 20 microamperes maximum (resistive) at 20 milliVolts maximum open circuit voltage.
   - Test speed shall be 5 cycles, or less, per second.
   - Each relay shall operate for 5000 cycles.
   - Each relay shall be monitored for opens, shorts and contact resistance which shall not exceed 1000 ohms.
   - Occurrence of any of these events shall constitute a miss and shall be cause for rejection of relay.

**TABLE I**

<table>
<thead>
<tr>
<th>DASH NO.</th>
<th>COIL RESISTANCE OHMS @ 25°C</th>
<th>MIN. MAX</th>
<th>PULL-IN CURRENT ADC MAX</th>
<th>MIN. MAX</th>
<th>CONTINUOUS CURRENT ADC 125°C</th>
<th>MIN. MAX</th>
<th>SUGGESTED SOURCE VOLTAGE</th>
<th>OPERATE SENSITIVITY MIN.</th>
<th>DROP-DOWN CURRENT ADC MIN.</th>
<th>LOAD MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>65 ± 10%</td>
<td>80.0</td>
<td>176</td>
<td>12.0</td>
<td>500</td>
<td>8.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>002</td>
<td>Dd10%</td>
<td>60.0</td>
<td>176</td>
<td>12.0</td>
<td>500</td>
<td>8.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES**

1. This page contains tables and diagrams that are not fully visible or legible due to the image quality.
3. The tables and diagrams are not transcribed in full due to the limitations of the text extraction method.