INCH-POUND

MS25918J
27 November 2003
SUPERSEDING
MS25918H
14 February 2001

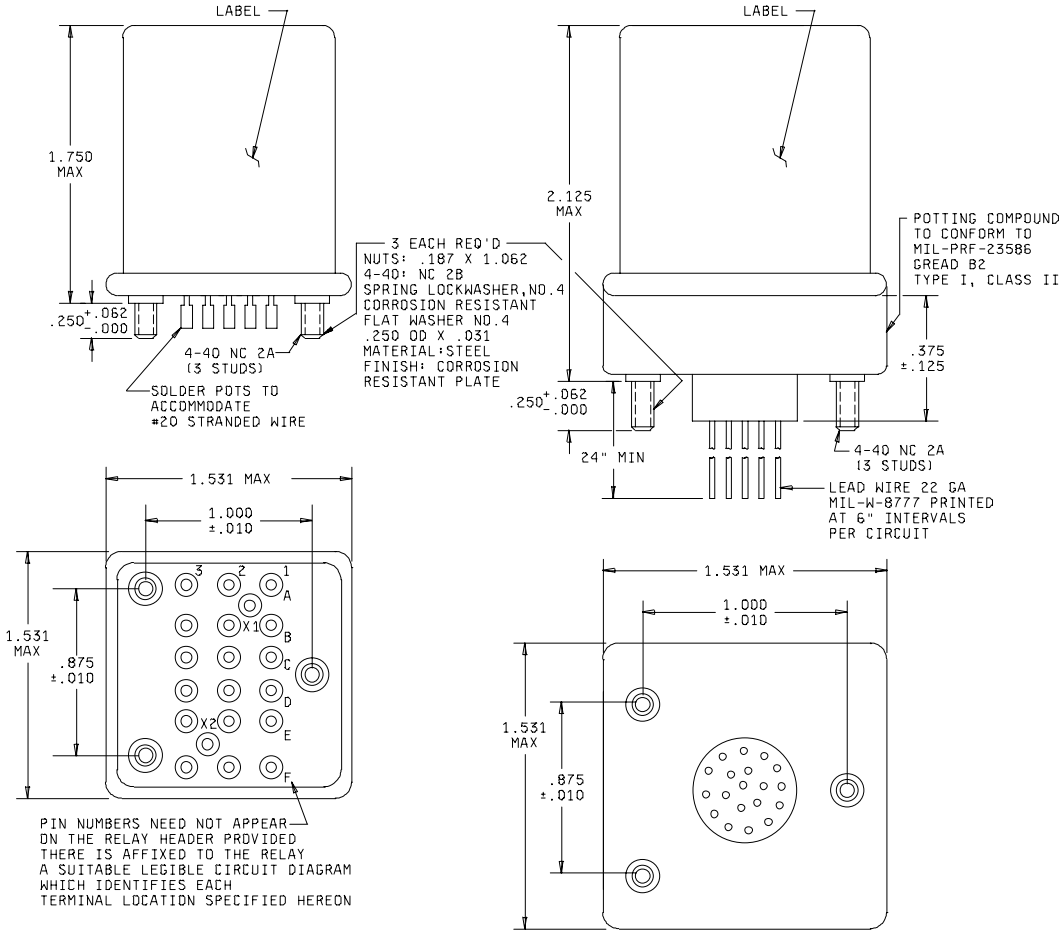
DETAIL SPECIFICATION SHEET

RELAYS, ELECTROMAGNETIC,
3 AMPERES, 6 PDT, TYPE I

INACTIVE FOR NEW DESIGN AFTER
14 AUGUST 1981. USE MS25269 OR MS25270.

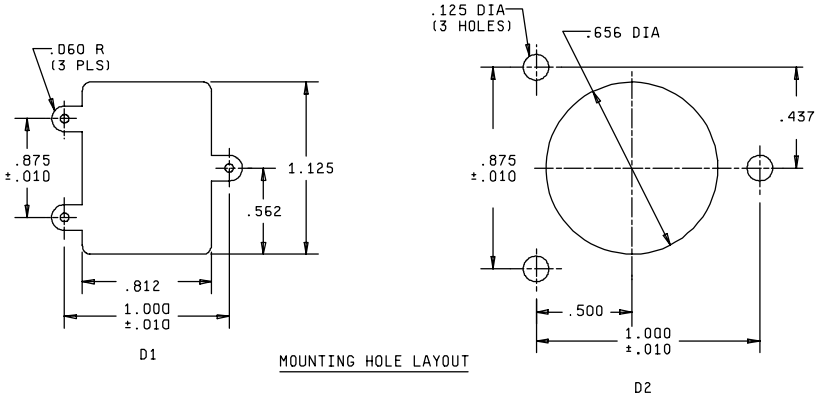
This specification is approved for use by all Departments and Agencies of the Department of Defense.

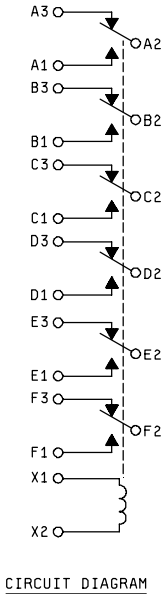
The requirements for acquiring the relay described herein shall consist of this specification and the latest issue of MIL-PRF-6106.



D1 D2

FIGURE 1. Dimensions and configurations.





CIRCUIT DIAGRAM

Inches	mm	Inches	mm
.002	0.05	.500	12.70
.010	0.25	.625	15.88
.031	0.79	.656	16.66
.060	1.52	.812	20.62
.062	1.57	.875	22.22
.125	3.18	1.000	25.40
.187	4.76	1.125	28.58
.250	6.35	1.531	38.88
.375	9.53	1.750	44.45
.437	11.10	6.000	152.40
.562	14.27	24.000	609.60

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Terminal numbers do not appear on the relay header. There shall be affixed to the relay a suitable legible circuit diagram that identifies each terminal location specified. Circuit diagram shown above is the terminal view.
4. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.
5. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standard (DoDISS) specified in the solicitation form a part of this standard to the extent specified herein.
6. For details see table I.
7. Unless otherwise specified, tolerance is ± .010 (0.25 mm).
8. Dash numbers D1 and D2 supersede and are completely interchangeable with dash numbers -1 and -2 respectively.

FIGURE 1. Dimensions and configurations - Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Weight: -D1 .25 pounds (113 grams).

-D2 .60 pounds (272 grams).

Contact requirements:

Load ratings:

High level (relay case grounded).

Resistive: 3 amperes at 28 V dc, 115 V ac (400 Hz).

Inductive: 1.5 amperes at 28 V dc, 115 V ac (400 Hz).

Motor: 1.5 amperes at 28 V dc, 115 V ac (400 Hz).

Mixed loads: Applicable.

Coil requirements:

Nominal coil voltage: 28 V dc.

Continuous coil voltage: 29 V dc maximum.

Pick up voltage: 18 V dc (over the temperature range).

Hold voltage: 7.0 V dc (over the temperature range).

Dropout voltage: 1.5 V dc (over the temperature range).

Coil current: 0.18 ampere maximum.

Electrical requirements:

Insulation resistance (minimum):

Initial: 100 megohms.

After life or environmental test: 50 megohms.

Dielectric strength:

	Sea level (V rms)		Altitude (V rms)	
	Initial	After life	80,000 feet	
			-D1	-D2
Coil to case:	1,000	1,000	250	500
All of the points:	1,250	1,000	250	500

Environmental requirements:

Temperature range: -65°C to +120°C.

Life test requirements: 50, 000 cycles minimum.

Operating period: 3 hours minimum.

Duty rating: Continuous.

Qualification by similarity: See MIL-PRF-6106.

Group B and Group C inspections are not applicable.

Group A acceptance reports shall be submitted to the qualifying activity on a yearly basis in order to retain qualification for this detail specification sheet.

Part or identifying number: (PIN): MS25918-D1 for solder terminals or MS25918-D2 for potted leads.

NOTES

Referenced documents. In addition to MIL-PRF-6106, this specification sheet references the following documents. (Government documents are available on line at http://assist.daps.dla.mil/quicksearch or www.dodssp.daps.mil or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094).

SPECIFICATIONS

Department of Defense

MIL-DTL-8777 - Wire, Electrical, Silicone-Insulated, Copper, 600-Volt, 200 Deg. C
MIL-PRF-23586 - Sealing Compound (with Accelerator), Silicone Rubber, Electrical

Custodian:
Navy - AS
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5945-1214-18)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using ASSIST Online database at www.dodssp.daps.mil.