

INCH-POUND

MS25919E  
 20 June 2006  
 SUPERSEDING  
 MS25919D  
 14 February 2001

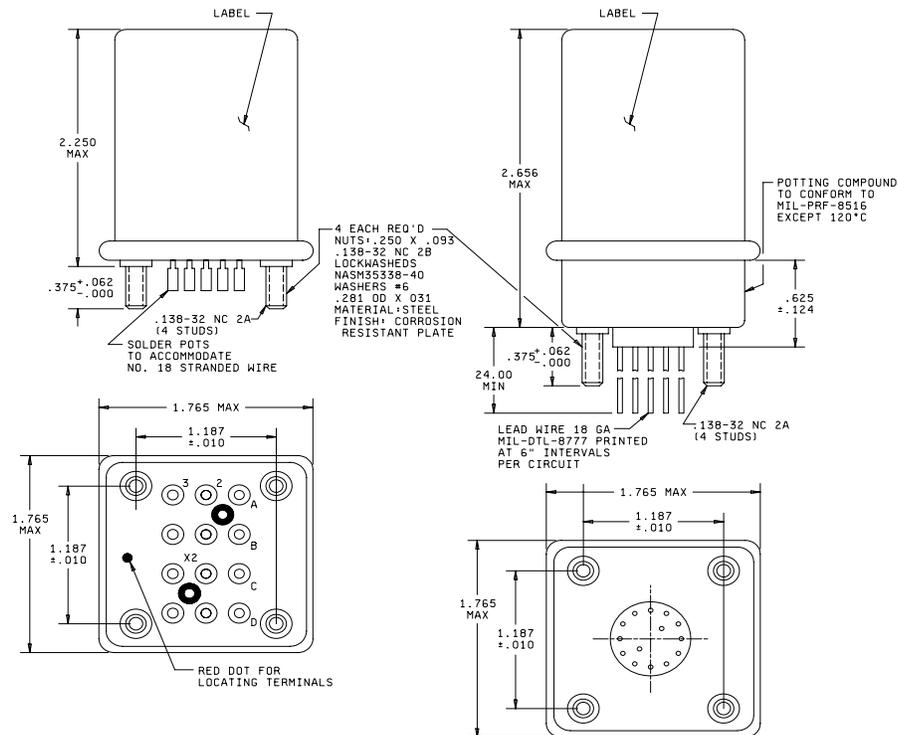
DETAIL SPECIFICATION SHEET

RELAYS, ELECTROMAGNETIC,  
 TYPE I, 10 AMPERES, 4 PDT

INACTIVE FOR NEW DESIGN AFTER  
 2 MARCH 1987. NO SUPERSEDING STANDARD. FOR  
 NEW DESIGN USE MIL-PRF-83536/15, MIL-PRF-  
 83536/16, MIL-PRF-83536/17.

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

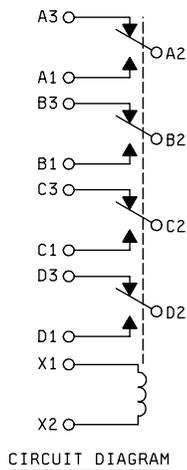
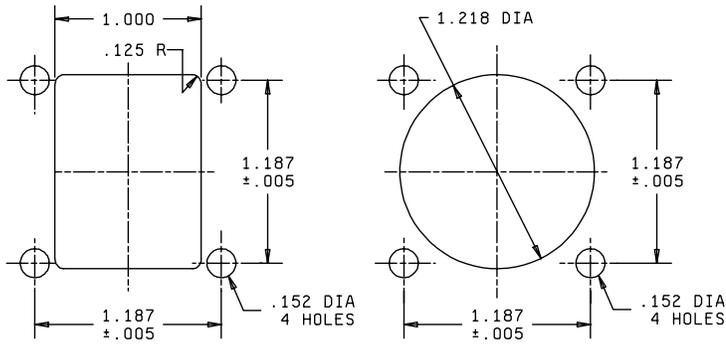
The requirements for acquiring the relay described herein shall  
 consist of this specification and the latest issue of [MIL-PRF-6106](#).



-1 (SOLDER TERMINALS)      -2 (POTTED LEADS)

FIGURE 1. Dimensions and configurations.

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MOUNTING HOLE LAYOUT

Inches	mm	Inches	mm
.005	0.13	1.000	25.40
.010	0.25	1.187	30.15
.062	1.57	1.218	30.94
.125	3.18	1.765	44.83
.138	3.51	2.250	57.15
.152	3.86	2.656	67.46
.375	9.53	6.000	152.40
.625	15.88	24.000	609.60

CIRCUIT DIAGRAM

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 are available online at <http://assist.daps.dla.mil/quicksearch/> or <http://assist.daps.dla.mil/> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094. Specified in the solicitation form a part of this document to the extent specified herein.
6. For details see table I.
7. Unless otherwise specified, tolerance is ± .010 (0.25 mm).

FIGURE 1. Dimensions and configurations - Continued.

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## REQUIREMENTS:

Dimensions and configuration: See [figure 1](#).

Weight: -1 .5 pounds (227 grams).

-2 .80 pounds (363 grams).

## Contact requirements:

## Load ratings:

High level (relay case grounded).

Resistive: 10 amperes at 28 V dc, 115 V ac (400 Hz).

Inductive: 7 amperes at 28 V dc, 115 V ac (400 Hz).

Motor: 6 amperes at 28 V dc, 115 V ac (400 Hz).

4 amperes at 115/200 V ac (400 Hz, 3 phase).

Mixed loads: Applicable.

## Coil requirements:

Nominal coil voltage: 28 V dc.

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: 0.25 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	
			-1	-2
Coil to case:	1,000	1,000	350	500
All of the points:	1,250	1,000	350	500

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### Environmental requirements:

Temperature range: -65°C to +120°C.

Life test requirements: 50,000 cycles minimum.

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): MS25919-1 for solder terminals or MS25919-2 for potted leads.

### NOTES:

Referenced documents. In addition to [MIL-PRF-6106](#), this document references the following:

[NASM35338](#)  
[MIL-DTL-8777](#)  
[MIL-PRF-8516](#)

Changes from previous issue: Marginal notations are mark with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

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

Preparing activity:  
DLA - CC

(Project 5945-2006-018)

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 the ASSIST Online database at <http://assist.daps.dla.mil>.