

INCH-POUND

MS25919D
14 February 2001
SUPERSEDING
MS25919C
28 April 1989

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.

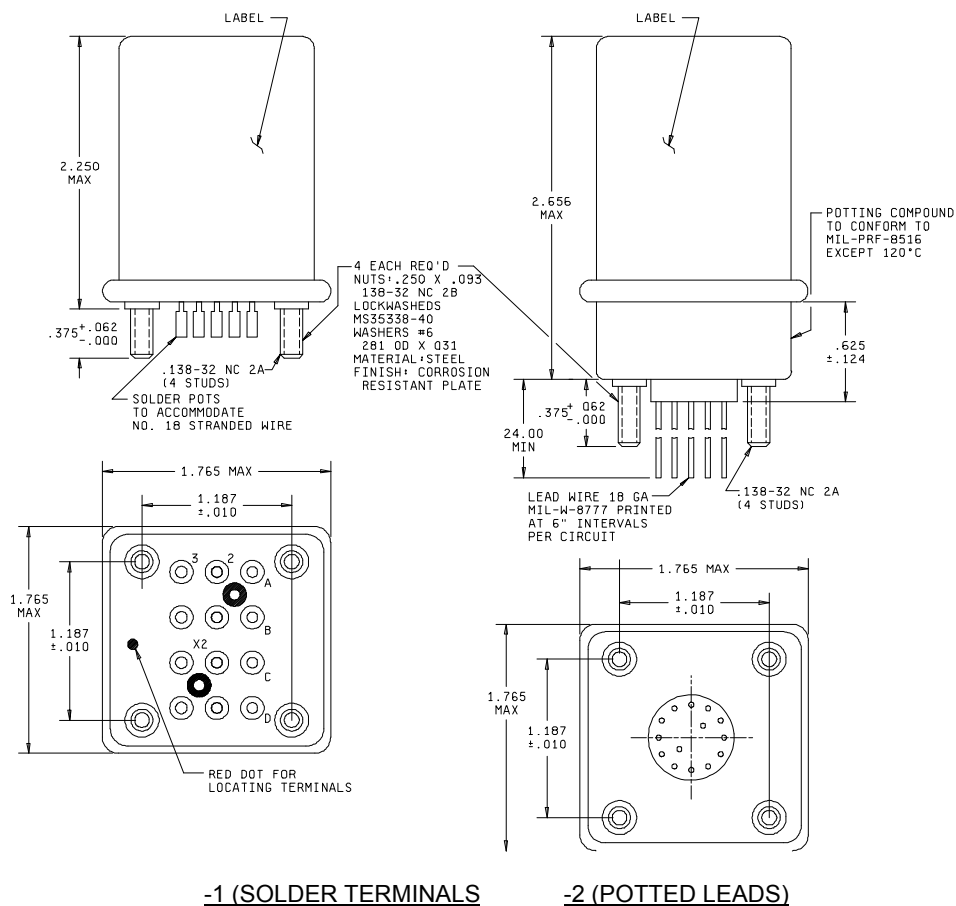
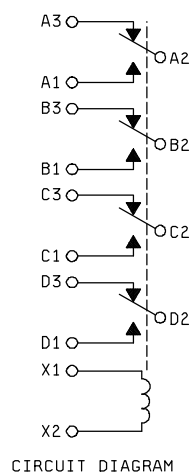
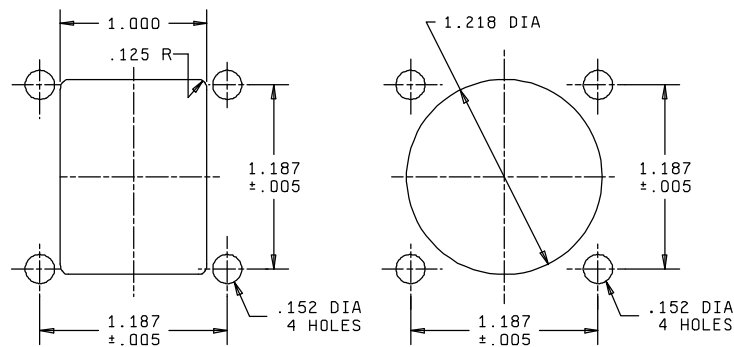


FIGURE 1. Dimensions and configurations.

MS25919D



MOUNTING HOLE LAYOUT

Inches	mm	Inches	mm
.005	0.05	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

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 $\pm .010$ (0.25 mm).

FIGURE 1. Dimensions and configurations - Continued.

MS25919D

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

MS25919D

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.

Custodian:

Navy - AS
Air Force - 11
DLA - CC

Preparing activity:

DLA - CC

(Project 5945-1120-02)