

INCH-POUND

MIL-PRF-8805/19F
4 October 2004
SUPERSEDING
MIL-PRF-8805/19E
3 September 1999

PERFORMANCE SPECIFICATION SHEET

SWITCHES, SENSITIVE-MOMENTARY, 2 CIRCUIT, 40 AMPERES, UNSEALED

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

The complete requirements for acquiring the switches described herein shall consist of this specification and the latest issue of MIL-PRF-8805.

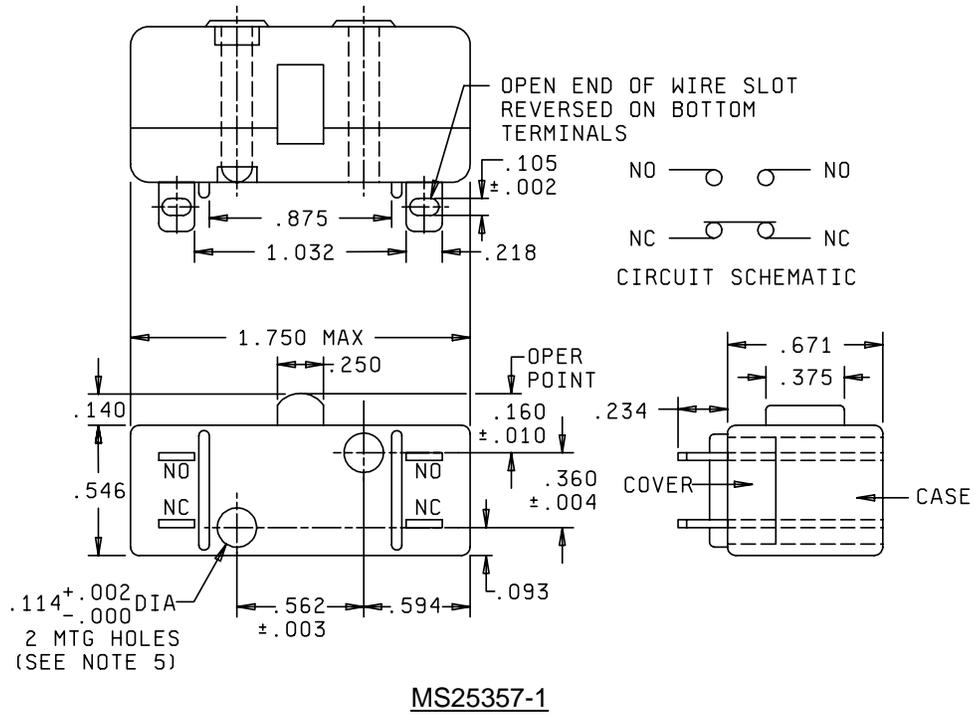
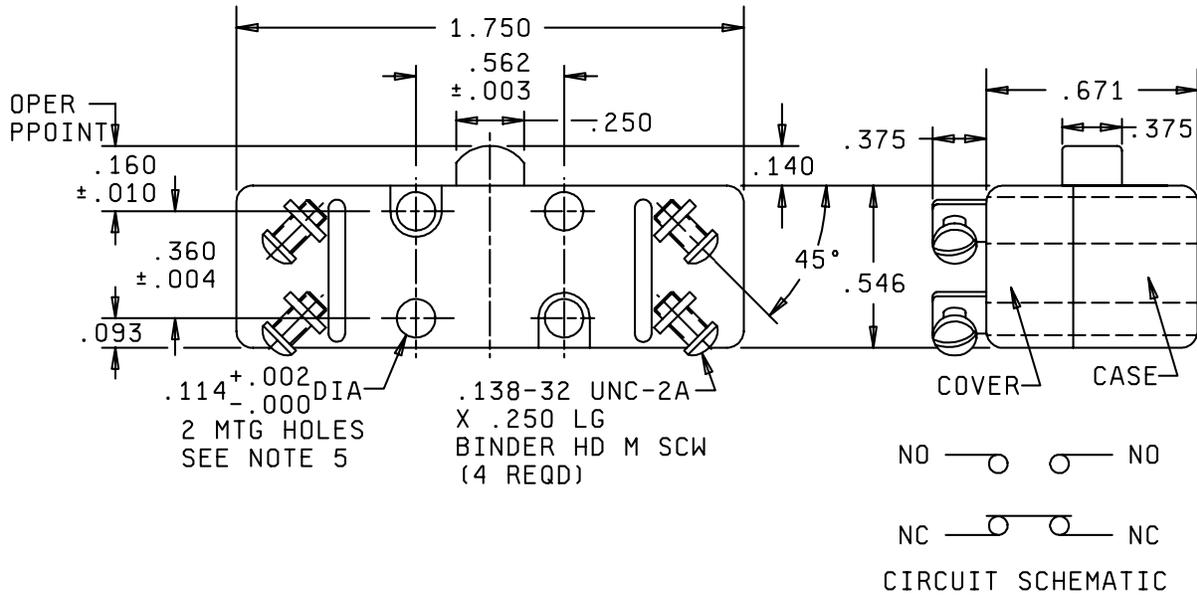


FIGURE 1. Dimensions and configurations.

MIL-PRF-8805/19F



MS25357-2

NOTES:

1. Dimensions are in inches.
2. Unless otherwise stated, tolerance is ± 0.015 (0.38 mm).
3. Exact shape of switch optional provided dimensions specified are not exceeded.
4. Metric equivalents are given for general information only.
5. Dimensions shown are case mounting holes. Cover mounting holes may exceed these dimensions by .010 (.25 mm) maximum.
6. Application note: Strain relief should be provided for lead wires within 6.000 (152.40 mm) of switch terminals.
7. MS25357 was superseded by MIL-PRF-8805/19; the MS25357 Part Numbers (PINS) were retained.

Inches	mm	Inches	mm
.002	0.05	.250	6.35
.003	0.08	.360	9.14
.004	0.13	.375	9.53
.010	0.25	.546	13.87
.093	2.36	.562	14.27
.105	2.67	.594	15.09
.114	2.90	.671	17.04
.140	3.56	.875	22.23
.160	4.06	1.032	26.21
.218	5.54	1.750	44.45
.234	5.94		

FIGURE 1. Dimensions and configurations (continued).

MIL-PRF-8805/19F

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 1 (unsealed).

Temperature characteristic: 1 (-55°C to +85°C).

Shock type: Method 213, test condition A, MIL-STD-202 (50 g).

Vibration grade: 1 (10 to 500 Hz)

Weight: .06 pound maximum.

Operating characteristics:

Actuating force 3.18 pounds maximum

Movement differential065 inch maximum.

Pretravel093 inch maximum.

Overtravel015 inch minimum.

Strength of actuating means: 25 pounds.

Terminal strength: 5 pounds (-1); 5 pound pull and 5 pound-inch torque (-2).

Mechanical endurance: 100,000 cycles.

Electrical endurance: 50,000 cycles.

Electrical ratings: See table I.

Short circuit: 1,200 amperes.

Dielectric withstanding voltage: 1,000 Vrms; 1,000 Vrms between all terminals and mounting plate, and 200 Vrms between all terminals following electrical endurance.

Temperature rise: Using No. 8 wire, the temperature rise measured at the switch terminals shall not exceed 50°C above the wire temperature measured a minimum of 12 inches from any connection.

Qualification:

Group submission: See table II.

Part number: See table III.

TABLE I. Electrical ratings.

Load	Sea level	
	28 V dc	115 V ac, 400 Hz
	amperes	amperes
Resistive	40	30
Inductive	30	20
Motor	15	10

MIL-PRF-8805/19F

TABLE II. Qualification inspection.

Examination or test	Basic switch	Other switch samples	Extent of approval
Qualification inspection table of MIL-PRF-8805	MS25357-1	MS25357-2 (2 sample units) 1. Terminal strength 2. Dielectric withstanding voltage 3. Visual and mechanical examination.	All

TABLE III. Part numbers and characteristics.

Part number	Terminal configuration
MS25357-1	Solder
MS25357-2	Screw

NOTE: MS25357 was superseded by MIL-PRF-8805/19; the MS25357 Part Numbers (PINS) were retained.

Referenced Documents:

MIL-PRF-8805
MIL-STD-202

Custodians:

Air Force - 11
Army - CR
DLA - CC
Navy - EC

Preparing activity:
DLA - CC

(Project 5930-1843)

Review activities:

Air Force - 19, 99
Army - AR, AV, MI
Navy - AS, OS, MC, SH

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 www.dodssp.daps.mil.