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INCH-POUND

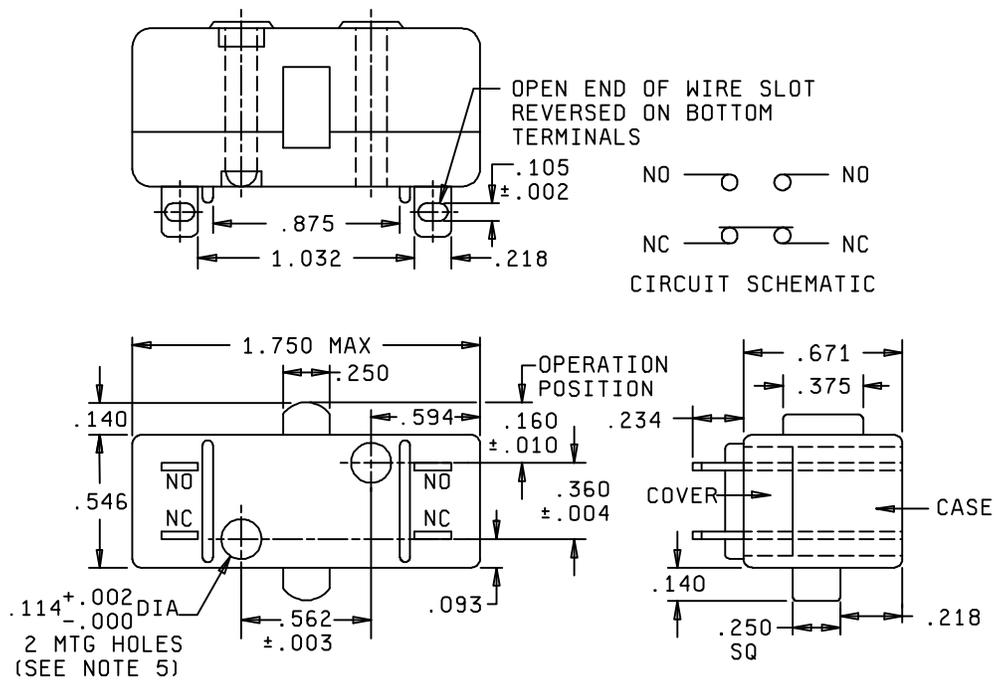
MIL-PRF-8805/34D
 3 September 1999
 SUPERSEDING
 MIL-S-8805/34C
 11 July 1972

PERFORMANCE SPECIFICATION SHEET

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

This specification forms a part of MIL-PRF-8805, dated 23 January 1998, and is approved for use by all Departments and Agencies of the Department of Defense.

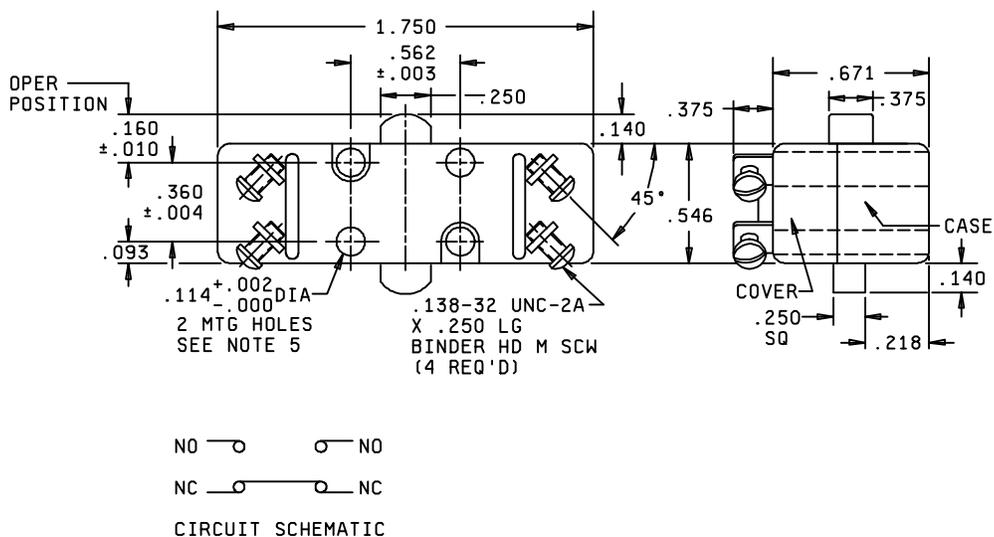
The requirements for acquiring the product described herein shall consist of this specification and MIL-PRF-8805.



MS25354-I

FIGURE 1. Dimensions and configurations.

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MS25354-2

Inches	mm	Inches	mm	Inches	mm
.002	0.05	.140	3.56	.546	13.87
.003	0.08	.160	4.06	.562	14.27
.004	0.10	.218	5.54	.594	15.09
.010	0.25	.234	5.94	.671	17.04
.093	2.36	.250	6.35	.875	22.23
.105	2.67	.360	9.14	1.032	26.21
.114	2.90	.375	9.53	1.750	44.45

NOTES:

1. Dimensions are in inches.
2. Unless otherwise stated, tolerance is .015 (.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 by .010 (.25 mm) max.
6. Application note: Strain relief should be provided for lead wires within 6.000 of switch terminals.

FIGURE 1. Dimensions and configurations (continued).

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REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 1 (unsealed).

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

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

Vibration grade: 1 (10 to 500 Hz).

Weight: 0.06 pound maximum.

Operating characteristics:

Actuating force: 2.18 pounds maximum.

Movement differential: .065 inch maximum

Pretravel: .093 inch maximum.

Overtravel: .015 inch minimum.

Reset button:

Pretravel: .093 inch maximum.

Overtravel: .005 inch minimum.

Strength of actuating means: 25 pounds.

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

Material:

Case and cover: Flame resistant.

Short circuit: 1,200 amperes.

Dielectric withstanding voltage: 1,000 V rms; 1,000 V rms between all terminals and mounting plate and 200 V rms 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.

Mechanical endurance: 100,000 cycles.

Electrical endurance: 50,000 cycles.

Electrical ratings: See table I.

Qualification:

Group submission: See table II.

Part number: See table III.

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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

TABLE II. Qualification inspection.

Examination or test	Basic switch	Other switch samples	Extent of Approval
Qualification inspection table of MIL-PRF-8805	MS25354-1	MS25354-2 (2 sample units) 1. Terminal strength 2. Dielectric withstanding voltage 3. Visual and mechanical examination	All

TABLE III. Part number

Part number	Terminal style
MS25354-1	Solder
MS25354-2	Screw

Custodians:

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

Preparing activity:
 DLA - CC

(Project 5930-1691-014)

Review activities:

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