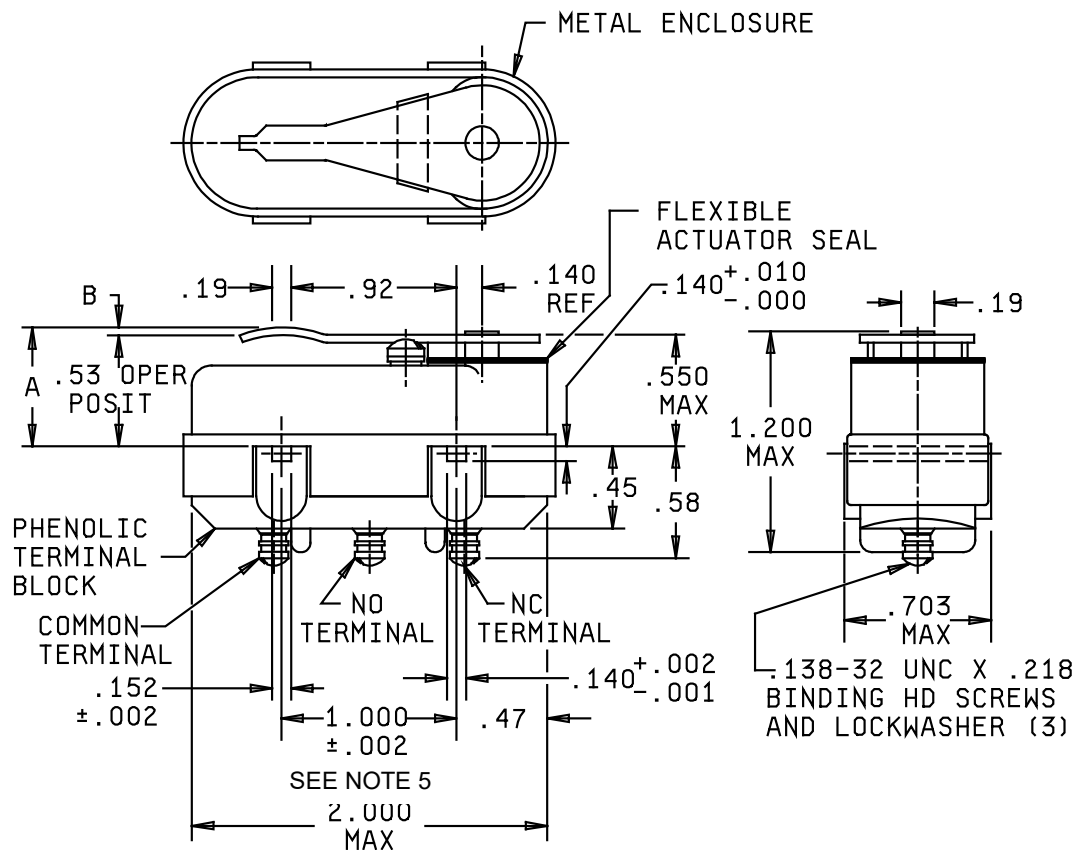


PERFORMANCE SPECIFICATION SHEET

SWITCHES, SENSITIVE, SPDT, LEVER, 25 AMPERES, HERMETIC

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](#).



NOTES:

1. Dimensions are in inches.
2. Unless otherwise stated, tolerance is ± 0.015 .
3. Exact shape of switch optional provided dimensions specified are not exceeded.
4. Mark, stamp, or mold NO and NC terminal designations on adjacent area of switch.
5. Mounting holes accept .139 maximum diameter pins or screws on 1.000 ± 0.002 centers.

Figure 1. Dimensions and configurations.

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 5 (Hermetic).

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

Shock type: M (100 g's).

Vibration grade: 1 (10 to 500 Hz).

Operating characteristics: See table I.

Part or Identifying Number (PIN): See table I.

Short circuit: 700 amperes.

Strength of actuating means: 25 pounds.

Terminal strength: 30 pounds.

Contact resistance: Not applicable.

Dielectric withstanding voltage:

Sea level: 1,000 V rms initial. 200 V rms after electrical endurance (Application of test potential between unconnected terminals of the same pole is not required.).

Seal tests: Only watertight test shall be performed in group A of table VIII and in group I of table VII.

Mechanical endurance: 25,000 cycles at .010 inch minimum overtravel.

Electrical endurance: 10,000 cycles.

Temperature rise: 65°C.

Electrical ratings: See table II.

Qualification inspection:

Group submission: See table III.

Quality assurance:

Group B: Explosion test not applicable.

Group B: Not applicable to inactive part numbers.

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TABLE I. Operating characteristics. 1/

PIN	A Maximum Free position	B Maximum pretravel	Operating position	Maximum differential travel	Minimum overtravel	Actuating force	Minimum release force
	<u>Inch</u>	<u>Inch</u>	<u>Inch</u>	<u>Inch</u>	<u>Inch</u>	<u>oz</u>	<u>oz</u>
MS25011-1 2/	.600	.065	.53	.020	.010	16 ±8	4
MS25011-2 2/	.610	.085	.53	.020	.010	25 ±3	4
MS25011-3 3/	.790	.065	.72	.020	.010	16 ±6	4
MS25011-4	.610	.085	.53	.020	.010	25 ±3	4

1/ ±20 percent variation from specified values acceptable after test.

2/ MS25011-1 and MS25011-2 - inactive for new design.

3/ MS25011-3 has been canceled without replacement.”

NOTE: MS25011 was superseded by MIL-PRF-8805/47; the MS25011 Part Numbers (PINS) were retained.

TABLE II. Electrical ratings.

PIN	Load	Current capacity (amperes)		
		28 V dc	115 V ac, 60 Hz	120 V dc
MS25011-1	Resistive	25	1	1
MS25011-2	Inductive	10	1	.5
MS25011-4	Resistive	25	1	.5
	Inductive	8	1	.5

TABLE III. Group submission.

Examination or test	Basic switch 1/	Other Switch	Extent of approval
Qualification inspection table of MIL-PRF-8805 (except operating characteristics in group VII shall be tested immediately preceding short circuit, rather than as the final test).	MS25011-2 2/ and MS25011-4 (all sample units)	MS25011-1 2/ (2 sample units) 1. Visual and mechanical examination 2. Operating characteristics	All

1/ MS25011-1 and MS25011-2 are inactive for new design.

2/ Qualification testing of MS25011-4 may be waived if testing is performed on MS25011-2.

NOTE: MS25011 was superseded by MIL-PRF-8805/47; the MS25011 Part Numbers (PINS) were retained.

Reference Documents

[MIL-PRF-8805](#)

The margins of this specification are marked with vertical lines to indicate where modifications from this revision 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.

Custodians:

Army - CR
Navy - EC
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5930-2025-051)

Review activities:

Army - AR, AV, MI
Navy - AS, MC

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 <https://assist.dla.mil/>.