

INCH-POUND

MS25100M

24 November 2024

SUPERSEDING

MS25100L

19 September 2019

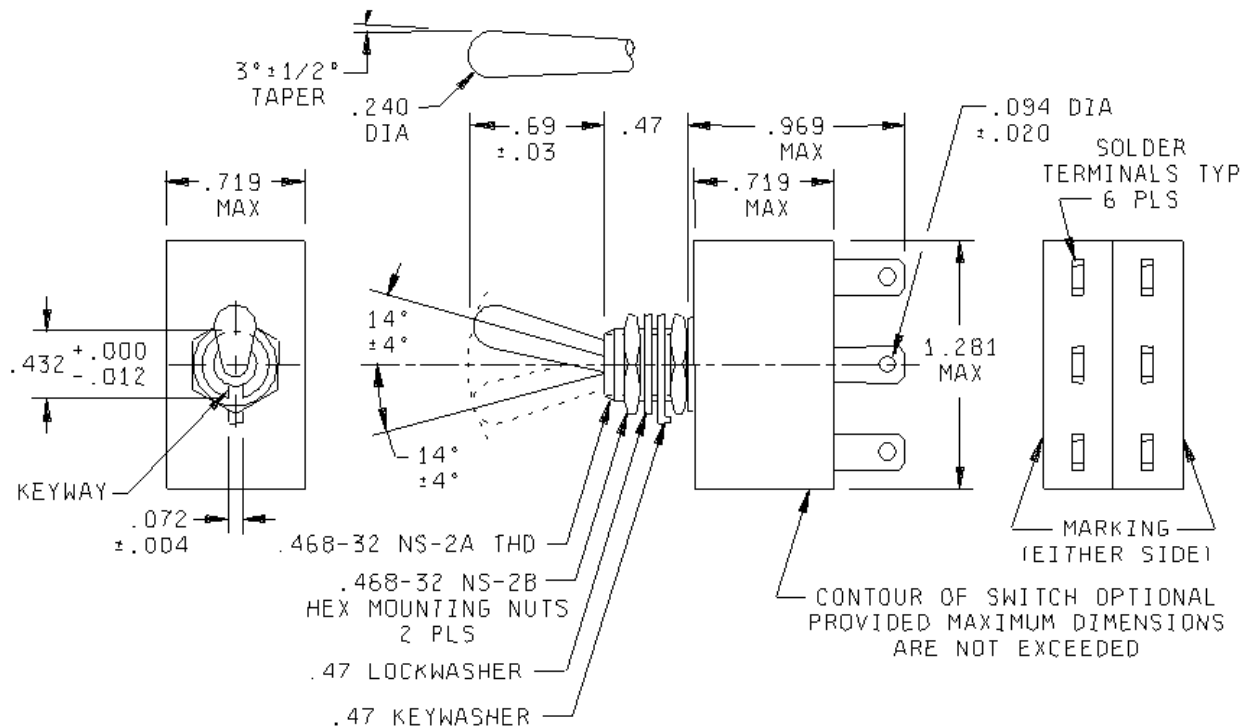
MILITARY SPECIFICATION SHEET

SWITCH, TOGGLE, TWO POLE, SEALED TOGGLE

Inactive for new design after 24 November 2024.

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

The requirements for acquiring the switch described herein shall consist of this specification sheet and [MIL-DTL-83731](#).



NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerances are $\pm .020$ on two place decimals and $\pm .005$ on three place decimals.
3. For hardware detail specifications, see appendix of [MIL-DTL-83731](#).
4. Dome on top of the mounting bushing is permissible, not to exceed .09 (2.3 mm).

FIGURE 1. [Dimensions and configuration.](#)



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Design and construction: See figure 1.

Switching characteristics: See table I. Direction of the movement of the switch mechanism is the same as that of the toggle lever.

Weight: .9 ounce maximum.

Dielectric withstanding voltage: Sea level only.

Toggle seal test: Applicable.

Electrical endurance: 10,000 cycles, at sea level only, with same polarity on adjacent poles.

Electrical ratings: See table II.

Mechanical endurances:

Maintained circuits: 20,000 cycles

Momentary circuits: 10,000 cycles.

Group B inspection: Not applicable.

Part or Identifying Number (PIN):

Example:

Dash number MS25100-22
(see table I)

PIN MS25100-22 identifies a switch with a circuit configuration of OFF in the down position (keying side), NONE in center position, and ON in the up position.

TABLE I. Switching characteristics.

MS part number MS25100-	Circuit with toggle lever in			Former MS part number	Former JAN type designation
	Down position keying side	Center position	Up position		
22	Off	None	On	MS25100-1	ST22K
23	On	None	On	MS25100-4	ST22M
26	Mom On	None	On	None	ST12R
29	Mom Off	None	On	MS25100-2	ST12L
30	Mom On	None	Off	MS25100-3	ST12M

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TABLE II. Electrical ratings.

MS part number MS25100-	Current capacity (Amperes per pole, nominal ratings)			
	Direct current		Alternating current (60 hertz)	
	Resistive circuit	Inductive circuit	Resistive circuit	Inductive circuit
	125 V	125 V	115 V	115 V
22	3.0	1.5	3.0	1.5
23	1.0	1.0	1.0	1.0
26	1.0	1.0	1.0	1.0
29	3.0	1.5	3.0	1.5
30	3.0	1.5	3.0	1.5

Changes from previous issue. The margins of this specification are marked 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 previous issue.

Referenced documents:

MIL-DTL-83731

Custodians:

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

Preparing activity:

DLA - CC

(Project 5930-2024-079)

Review activities:

Army - AV
Navy - EC

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/>.