

INCH-POUND  
 MS25100J  
 26 June 1995  
 SUPERSEDING  
 MS25100H  
 31 December 1986

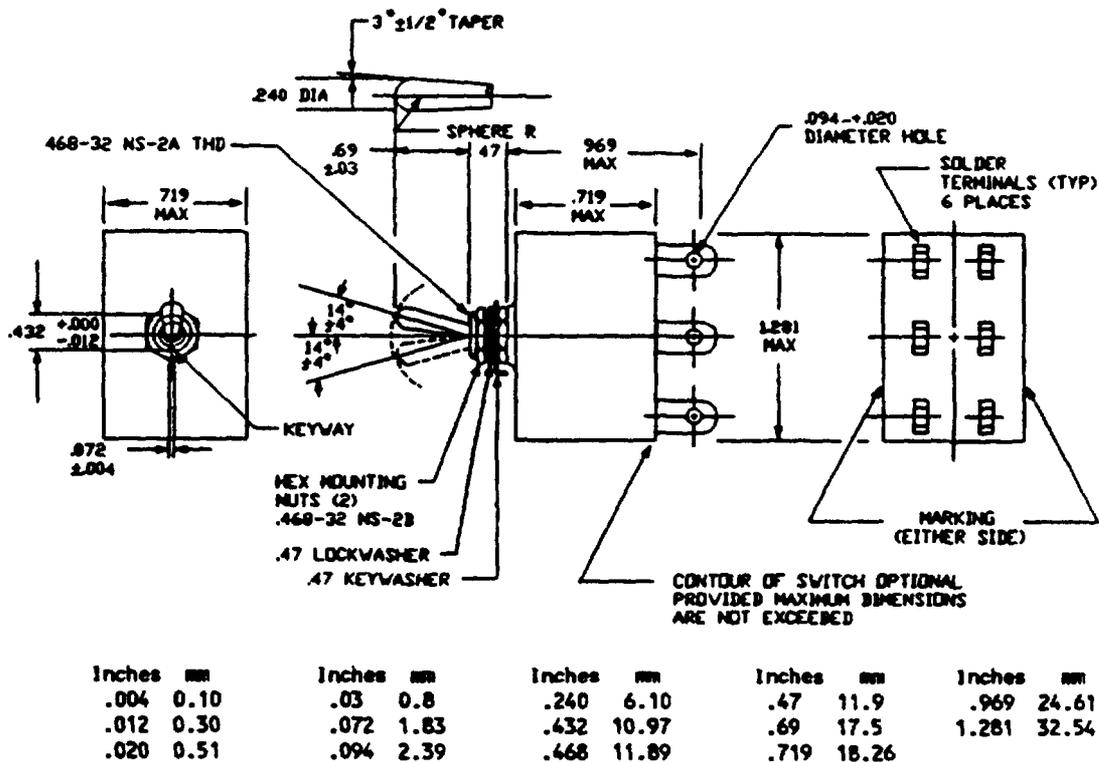
## MILITARY SPECIFICATION SHEET

## SWITCH, TOGGLE, TWO POLE, SEALED TOGGLE

INACTIVE FOR NEW DESIGN AFTER 16 SEPTEMBER 1969

This specification 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 sheet and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-S-83731.



## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm 0.020$  (0.51 mm) on two place decimals and  $\pm 0.005$  (0.13 mm) on three place decimals.
4. For hardware detail specifications see appendix of MIL-S-83731.
5. Dome on top of the mounting bushing is permissible, not to exceed .09 (2.3 mm).

FIGURE 1. Dimension and configurations.

(J) denotes changes

AMSC N/A

1 of 3

FSC 5930

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

REQUIREMENTS:

## MS25100J

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 endurance:

Maintained circuits: 20,000 cycles.

Momentary circuits: 10,000 cycles.

Group B inspection: Not applicable.

Part or Identifying Number (PIN):

Example:

MS25100- 22

Dash number \_\_\_\_\_  
(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 PIN MS25100-	Circuit with toggle lever in			Former MS PIN	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	ST22N
26	Mom On	None	On	None	ST22R
29	Mom Off	None	On	MS25100-2	ST22L
30	Mom On	None	Off	MS25100-3	ST22M

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TABLE II. Electrical ratings.

MS part no. 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

(J) CONCLUDING MATERIAL

Custodian:  
Air Force - 85  
Navy - AS  
Army - ER

Preparing activity:  
DLA - ES

(Project 5930-1607)

Review activities:  
Navy - EC  
Air Force - 99  
Army - AV