

INCH-POUND

MIL-PRF-8805/41C  
20 June 2006  
SUPERSEDING  
MIL-PRF-8805/41B  
31 October 2001

PERFORMANCE SPECIFICATION SHEET

SWITCHES, SENSITIVE, DPDT, PLUNGER, 5 AMPERE, HERMETIC

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

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

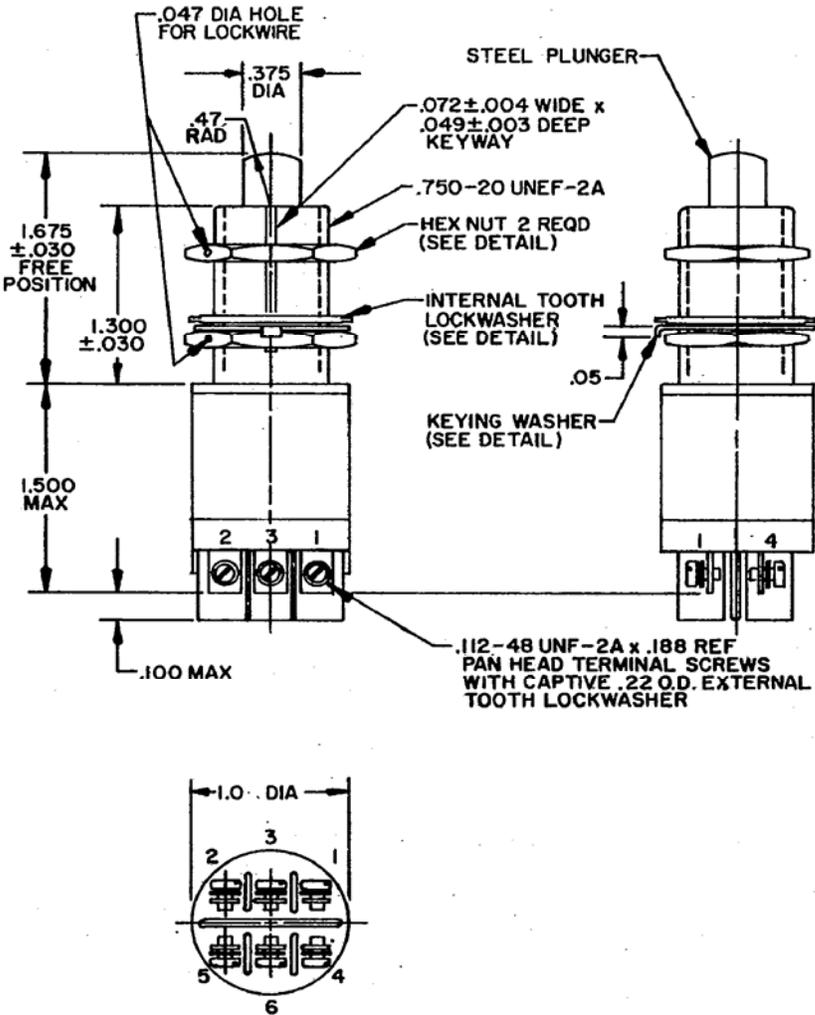
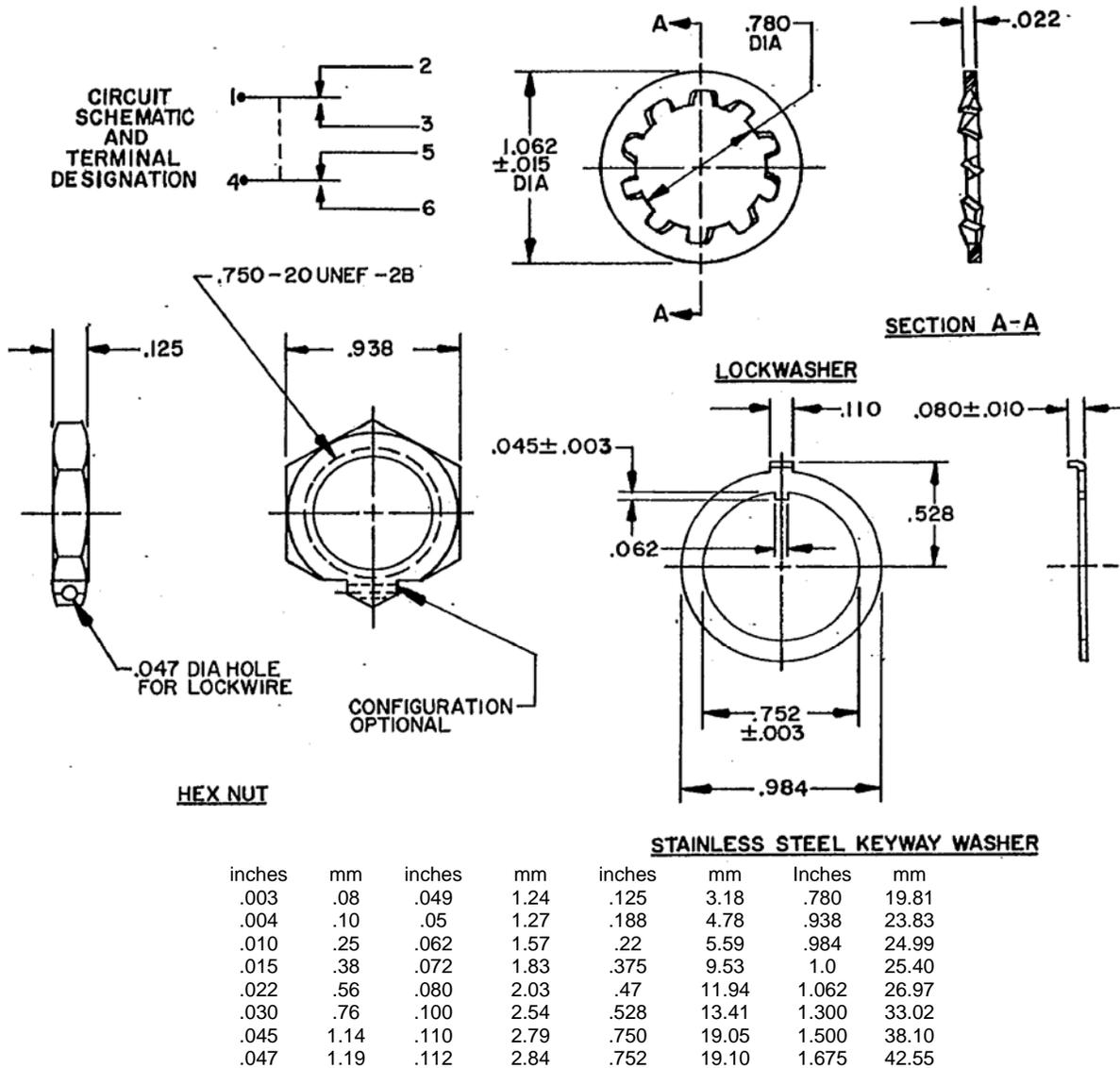


FIGURE 1. Dimensions and configuration.



**NOTES:**

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is  $\pm .030$  (0.76 mm) for one place decimals,  $\pm .015$  (0.38 mm) for two place decimals, and  $\pm .005$  (0.13 mm) for three place decimals.
3. Exact shape of switch optional provided dimensions specified are not exceeded.
4. The circuit and terminal designation shall be permanently and legibly marked on switch case.
5. Metric equivalents are given for general information only and are based on 1 inch = 25.4 mm..

FIGURE 1. Dimensions and configuration - continued.

**REQUIREMENTS:**

Dimensions and configuration: See figure 1.  
Enclosure design: 5 (Hermetic).

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Temperature characteristic: 3 (-65° to +315°C).

Shock type: M (100 g).

Vibration grade: 1 (10 to 500 Hz).

Weight: 4.50 ounces maximum.

Operating characteristics: 1/

Actuating force: 9.0 ±3.0 pounds.

Pretravel: .050 inch maximum.

Movement differential: .015 inch maximum.

Overtravel: .250 inch minimum.

Strength of pin and pin stop: 35 pounds.

Terminal strength: 15 pounds

Hardware: Hex nut; lockwasher; washer, keyway-corrosion resistant metal.

Contact resistance: Not applicable.

Moisture resistance: 1 megohm.

Dielectric withstanding voltage:

Sea level: 1,000 Vrms; 500 microampere leakage current. After electrical endurance the dielectric withstanding voltage points of application between all unconnected terminals of the same pole is not applicable.

Seal test: Watertight test not applicable.

Mechanical endurance: 25,000 cycles.

Short circuit: 10 amperes.

Electrical endurance: 25,000 cycles.

Electrical ratings: See table I.

Quality assurance:

Group C: Explosion test not applicable.

Part or Identifying Number (PIN): MS24594-1. 2/

TABLE I. Electrical ratings.

Load	Sea level
	28 V dc amperes
Resistive	5
Inductive	2

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

2/ Military Standard Drawing MS24594 is canceled and superceded by MIL-PRF-8805/41.

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Referenced document  
MIL-PRF-8805

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:  
Army - CR  
Navy - EC  
Air Force – 11  
DLA - CC

Preparing activity:  
DLA - CC  
  
(Project 5930-2006-019)

Review activities:  
Navy – MC, SH  
Air Force – 19

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 <http://assist.daps.dla.mil/>.