

INCH-POUND

MIL-PRF-8805/7J

28 June 2022

SUPERSEDING

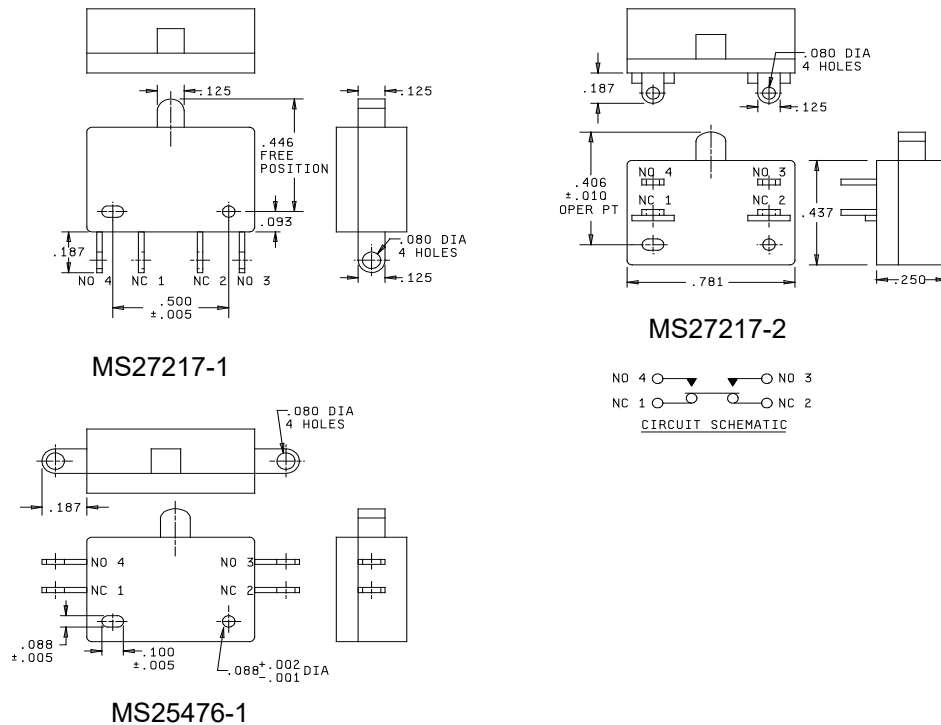
MIL-PRF-8805/7H

31 January 2006

PERFORMANCE SPECIFICATION SHEET
SWITCHES, PUSH, MOMENTARY, 2 CIRCUIT OR SPST (10 AMPERES), UNSEALED

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](#).



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.

FIGURE 1. Dimensions and configurations.



REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 1 (unsealed).

Temperature characteristic: 2 (-65°C to +125°C).

Shock type: M (100 g, test condition I, [MIL-STD-202-213](#)).

Vibration grade: 2 (10 to 2,000 Hz swept sinusoidal, 15 g peak).

Weight: .10 ounce maximum.

Operating characteristics:

Free position.....	.446 inch	} ±20 percent variation from specified values specified after test.
Actuating force	8 ounces maximum	
Overtravel.....	.012 inch minimum.	
Movement differential.....	.020 ±.005 inch.	
Operating point.....	.406 ±.010 inch.	

Strength of actuator: 25 pounds.

Terminal strength: 5 pounds when applied perpendicular to the longitudinal axis of the terminals; 9 pounds when applied in other directions.

Dielectric withstanding voltage:

Sea level: 1,000 V rms between all terminals and ground.

Altitude: 400 V rms.

Mechanical endurance: 1,000,000 cycles at .016 ± .001 inch overtravel.

Electrical endurance: 100,000 cycles.

Electrical ratings: See table I.

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

Qualification:

Group submission: See table III.

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TABLE I. Electrical ratings.

Load	Sea Level		70,000 feet
	28 V dc	115 V ac, 60 Hz	28 V dc
	Amperes	Amperes	Amperes
<u>NO or NC</u>			
Resistive	10	7.5	10
Inductive	7.5	5	3.5
Lamp	4	3	---
<u>2 circuit</u>			
Resistive	10	5	10
Inductive	5	5	2
Lamp	3	1.5	---

TABLE II. PIN and terminal configurations.

PIN	Terminal configuration
MS27217-1	Bottom solder type
MS27217-2	Side solder type
MS25476-1	End solder type

TABLE III. Group submission.

PIN	Examination or test	Extent of approval
MS27217-1 (all sample units)	Qualification inspection table of MIL-PRF-8805	All
MS27217-2 MS25476-1 (4 sample units)	Terminal strength Dielectric withstanding voltage Visual and mechanical examination	

Referenced Documents

[MIL-PRF-8805](#)
[MIL-STD-202-213](#)

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.

Custodians:

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

Preparing activity:
DLA - CC

(Project 5930-2022-052)

Review activities:

Army - AR, AV
Navy - AS, MC, OS, SH
Air Force - 19
NASA – NA

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/>.