

INCH-POUND

MIL-PRF-8805/23L

24 November 2025

SUPERSEDING

MIL-PRF-8805/23K

w/Amendment 1

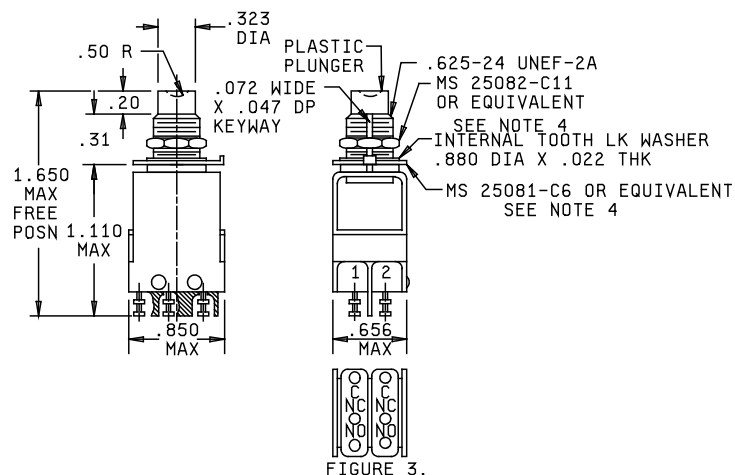
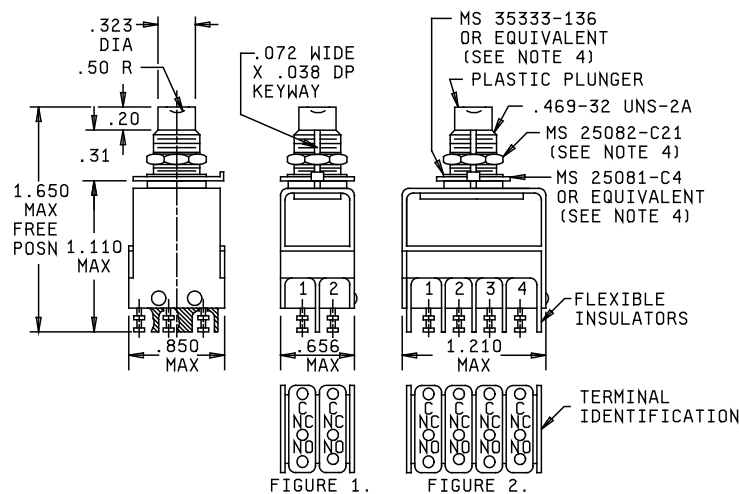
31 January 2020

PERFORMANCE SPECIFICATION SHEET

SWITCH ASSEMBLIES, SENSITIVE, PUSH, MOMENTARY, 5 AMPERES, UNSEALED

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

The requirements for acquiring the switches described herein shall consist of this document and [MIL-PRF-8805](#).



FIGURES 1, 2, & 3 Dimensions and configurations.

NOTES:

1. Dimensions are in inches.
2. Unless otherwise stated, tolerance is ± 0.015 for three place decimals and ± 0.02 for two place decimals.
3. DELETED.
4. Alternative base metals and protective finishes, as approved by the qualifying activity, may be utilized for terminal screw and lock washer material. Dimensions shall be in accordance with the referenced hardware specifications.
5. Basic switch number shall be permanently marked as shown.
6. MS35333-136 details are found in NASM35333.
7. MS25081-C4 and -C6 details are found in MS25081.
8. MS25082-C11 and -C21 details are found in MS25082.

FIGURES 1, 2, & 3. Dimensions and configurations - Continued.

REQUIREMENTS:

Dimensions and configurations: See figures 1, 2 and 3.

Enclosure design: 1 (unsealed).

Seal test: Not applicable.

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

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

Vibration grade: 1 (10 Hz to 500 Hz).

Weight: See table III.

Operating characteristics:

Coincidence of operating and releasing points: All poles shall have transferred within .010 inch of plunger travel.

Total plunger travel: .075 inch approximately (information only).

Operating force: See table III.

Switch assembly: Basic switch shall be Part Number (PIN): MS25085-2 ([MIL-PRF-8805/2](#)) switch listed on QPL-8805, except that terminal markings shall be in accordance with identification as shown on figure, or an equivalent basic switch. If a non-QPL basic switch is used, approval must be obtained from the Qualifying Activity, who may require additional testing.

Mechanical endurance: 50,000 cycles.

Electrical endurance: 25,000 cycles.

Electrical ratings: See table I.

Contact resistance, post mechanical endurance, shall not exceed:

-001 thru -005: 40 milliohms

-101 thru -105: 250 milliohms

Qualification inspection (group submission): See table II.

Part numbers and characteristics: See table III.

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TABLE I. Electrical ratings.

Load	Sea level		50,000 feet
	28 V dc amperes	115 V ac, 60 Hz amperes	28 V dc amperes
Resistive	5	5	5
Inductive	3	5	2.5
Lamp	2.4	1.5	2.4

TABLE II. Qualification inspection (group submission).

Examination or test	Basic switch assembly	Additional sample units for combined submission	Extent of Approval
<u>Group I</u> Visual and mechanical examination Operating characteristics	M8805/23-104 (12 sample units)	(2 sample units each): M8805/23 -001 M8805/23 -002 M8805/23 -003 M8805/23 -004 M8805/23 -005 (tested to group I only)	All
<u>Group II</u> Strength of actuating means <u>1/</u> Strength of mounting bushing <u>1/</u> Thermal shock Vibration Shock Operating characteristics Dielectric withstanding voltage Visual and mechanical examination	(4 sample units from group I)	---	
<u>Group III</u> Salt spray (corrosion) Visual and mechanical examination	(2 sample units from group I)	---	
<u>Group IV</u> Low temperature operation (2 sample units only) Mechanical endurance at low temperature (2 units) <u>2/</u> Mechanical endurance at high temperature (2 sample units only) Operating characteristics Dielectric withstanding voltage Visual and mechanical examination	(4 sample units from group I)	---	
<u>Group V</u> Electrical endurance Inductive load, dc	(2 sample units from group I)	---	

1/ Two sample units only.2/ Same sample units as for low temperature operation.

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TABLE III. Part numbers and characteristics.

Part number	Figure	Circuit characteristic	Contact resistance ^{1/}	Operating force	Weight	Button color
			milliohms	lb max	lb max	
M8805/23-001	1	2PDT	40	4.5	.055	Black
M8805/23-002	1	2PDT	40	4.5	.055	Red
M8805/23-003	2	4PDT	40	5.5	.075	Black
M8805/23-004	2	4PDT	40	5.5	.075	Red
M8805/23-005	3	2PDT	40	4.5	.055	Black
M8805/23-101	1	2PDT	250	4.5	.055	Black
M8805/23-102	1	2PDT	250	4.5	.055	Red
M8805/23-103	2	4PDT	250	5.5	.075	Black
M8805/23-104	2	4PDT	250	5.5	.075	Red
M8805/23-105	3	2PDT	250	4.5	.055	Black

^{1/} Post mechanical endurance test measurement shall not exceed listed value

The margins of this specification are marked with vertical lines to indicate modifications generated by this revision. 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.

Referenced Documents:

[MIL-PRF-8805](#)
[MS25081](#)

[MIL-PRF-8805/2](#)
[MS25082](#)

[MIL-STD-202-213](#)
[NASM35333](#)

Custodians:

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

Preparing activity:
DLA - CC

(Project 5930-2025-049)

Review activities:

Army - AR, AV, MI
Navy - AS, MC
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 <https://assist.dla.mil/>.