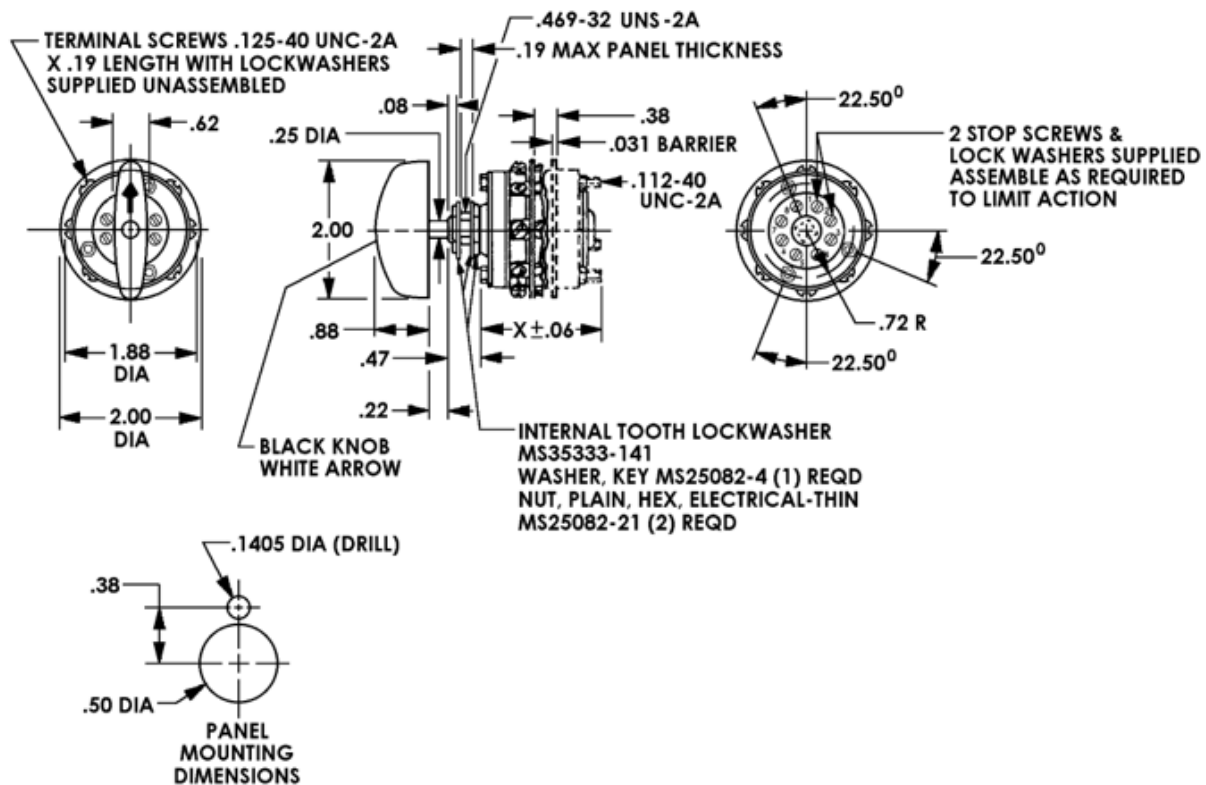


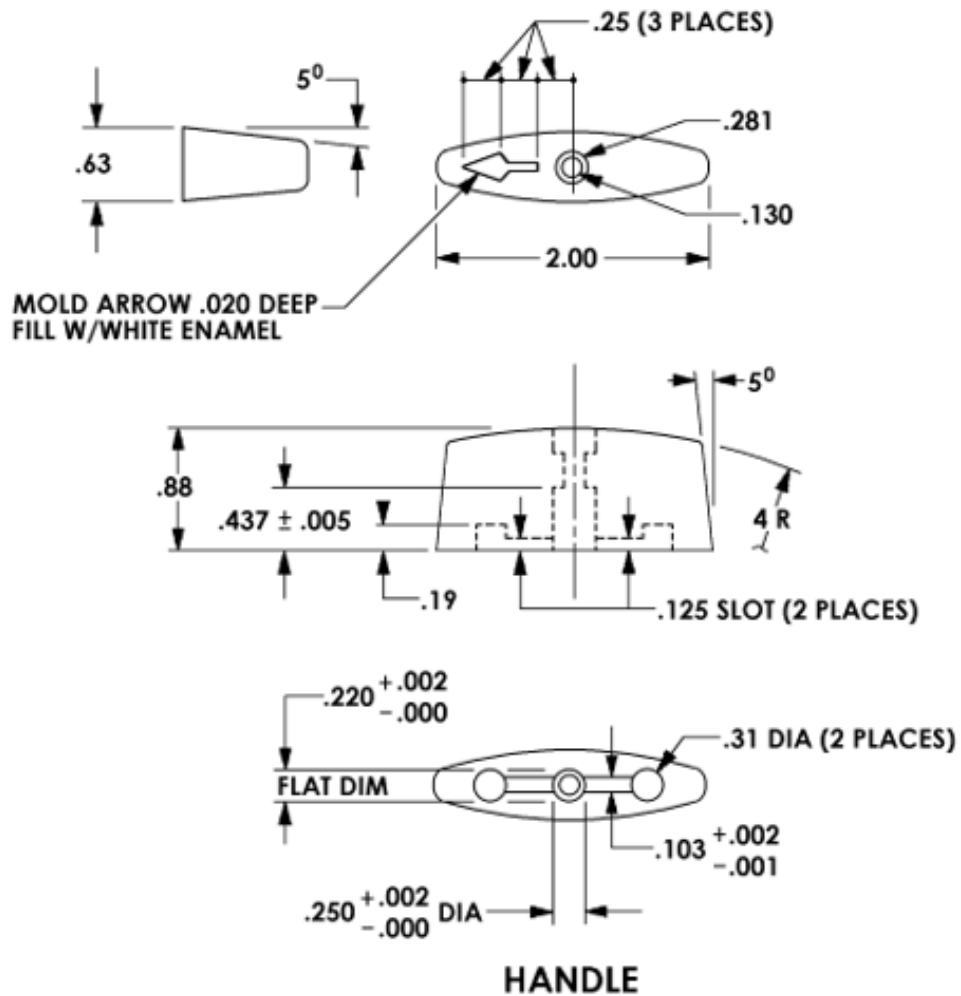
DETAIL SPECIFICATION SHEET

SWITCH, ROTARY, MULTIPOLE AND SELECTOR, 5 AMPERE,
STYLE JL

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

The complete requirements for acquiring the switches described herein shall consist of this specification and the latest issue of [MIL-DTL-21604](#).

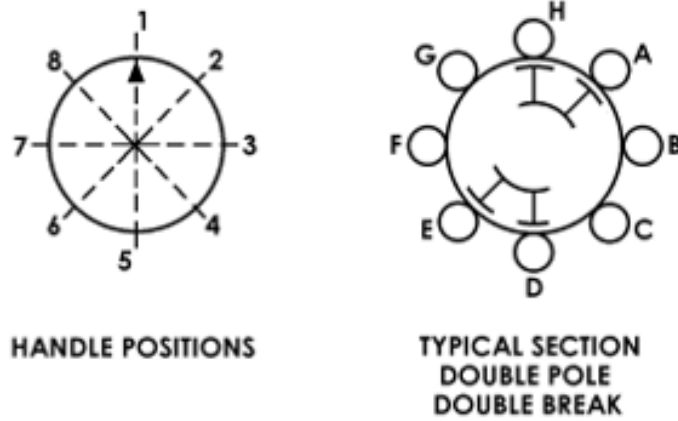
FIGURE 1. Style JL switch.



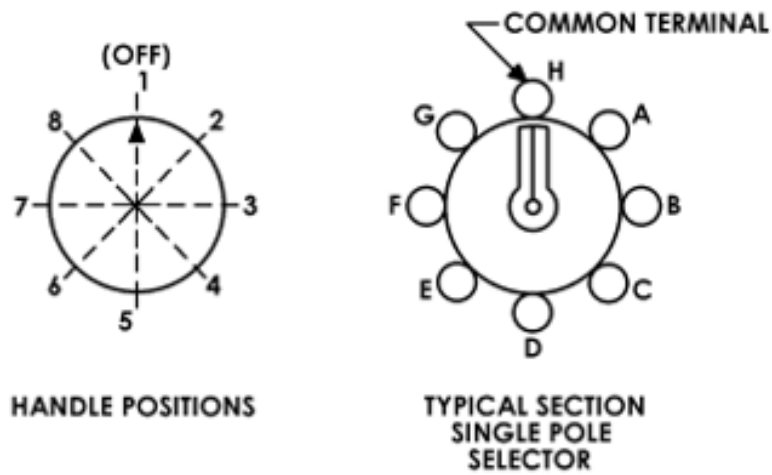
NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerances are ± .016 for two-place decimals and ± 0.005 for three-place decimals.
3. On switches of 6 to 10 sections, the securing rods shall extend .50 inch beyond the hex nuts at the rear of the switches to facilitate attachment to rear supports. A hex nut and lockwasher shall be provided for each extension rod.
4. MS35333-141 per [NASM35333](#). MS25082-4 and MS25082-21 per [MS25082](#).

FIGURE 1. Style JL switch - Continued.



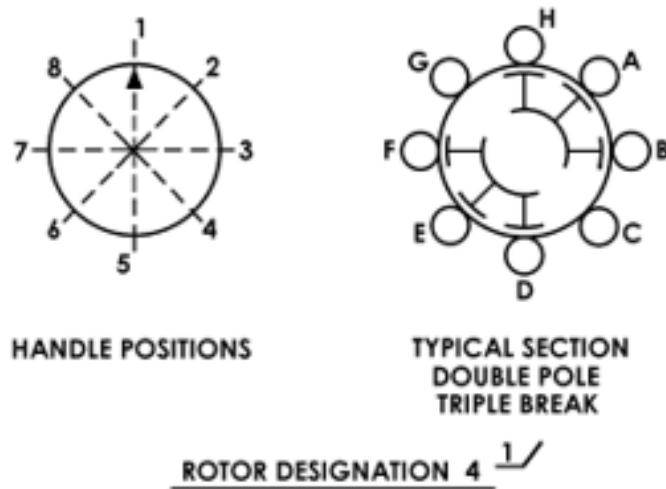
ROTOR DESIGNATION 2



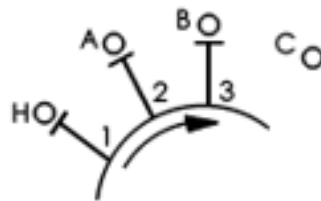
ROTOR DESIGNATION 3

NOTE: VIEWED FROM THE HANDLE END.

FIGURE 2. Rotor contact configuration and handle positions.



WITH ROTOR CONFIGURATION 4, CONTACT H-1 BREAKS BEFORE C-3 MAKES, AND CONTACTS A-1 AND B-1 MAKE BEFORE A-2 AND B-3 MAKE



NOTE: VIEWED FROM THE HANDLE END.

FIGURE 2. Rotor contact configuration and handle positions - Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1, figure 2, and table I.

Angle of throw: 45 degrees.

Switching action: Detent.

Electrical loads:

AC current: 5 ampere.

Voltage: 125 volts (at 60 and 400 Hz, 0.80 inductive power factor).

Temperature rise: 15°C maximum.

Contact material:

Rotor: Silver-overlay phosphor bronze.

Stator: Silver-overlay copper.

Stop torque: 30 inch-pounds.

Barriers: See figure 1.

Terminal marking: Adjacent to terminals on switch section.

Stop marking: See figure 1.

Qualification samples: See table II.

TABLE I. Type designation and switching characteristics.

Type designation		Style	Number of sections	Dimension "X" <u>2/</u> ± .062	Approximate weight (ounces)	Maximum rotational torque (inch-pounds)
Component	Rotor designation <u>1/</u>					
S	1	JL	3	1.91	8	9
S	2	JL	1	1.16	6	7
S	2	JL	2	1.54	7	8
S	2	JL	3	1.91	8	9
S	2	JL	5	2.66	10	11
S	2	JL	10	5.28	16	16
S	3	JL	1	1.16	6	7
S	3	JL	2	1.54	7	8
S	3	JL	3	1.91	8	9
S	3	JL	4	2.30	9	10
S	3	JL	5	2.66	10	11
S	3	JL	9	4.54	15	15
S	3	JL	10	5.28	16	16
S	4	JL	3	1.91	8	9
S	4	JL	5	2.66	10	15
S	4	JL	10	5.28	16	20

1/ For rotor designation, see figure 2.

2/ Dimensions are in inches. Metric equivalents (to the nearest 0.01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.

TABLE II. Qualification test samples.

Sample switch	Test number <u>1/</u>	Sample switch	Test number
S2JL10	1	S3JL10	4
S2JL10	2	S4JL10	1
S3JL10	3	S4JL10	2
S2JL10	4	S4JL10	3
S3JL10	1	S4JL10	4
S3JL10	2	S4JL10	5
S3JL10	3	S4JL10	6

1/ Test numbers in accordance with table II of MIL-DTL-21604.

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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.

Reference Documents:

[MIL-DTL-21604](#)
[NASM35333](#)
[MS25082](#)

Custodians:

Navy - SH
DLA - CC

Preparing activity:

DLA - CC

(Project 5930-2024-030)

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/>.