

DETAIL SPECIFICATION SHEET

SWITCH, ROTARY, MULTIPOLE AND SELECTOR, 10 AMPERE,  
STYLES JR 304 AND JRM 300

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.

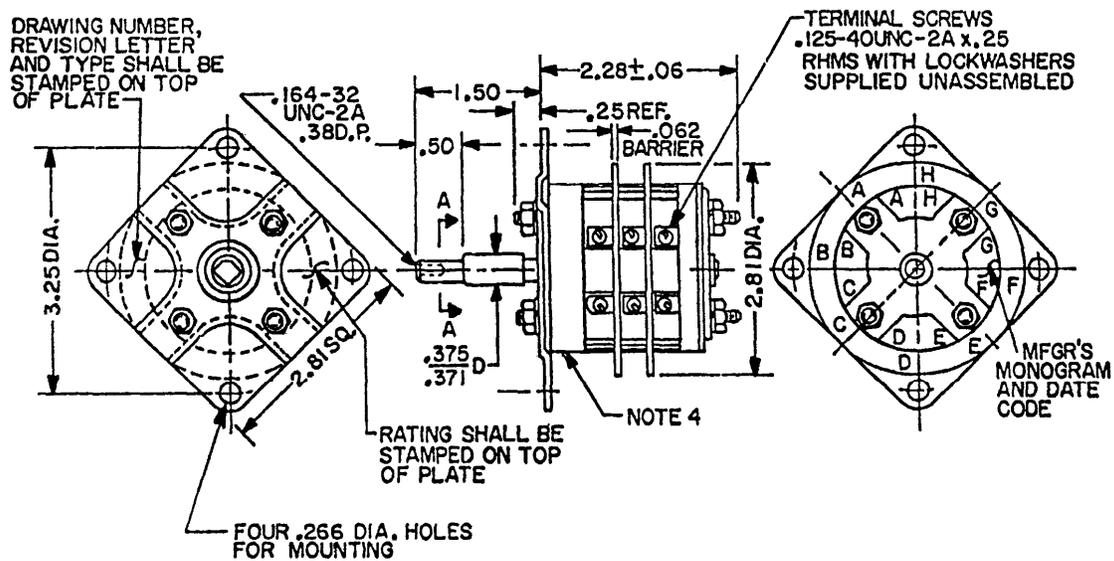
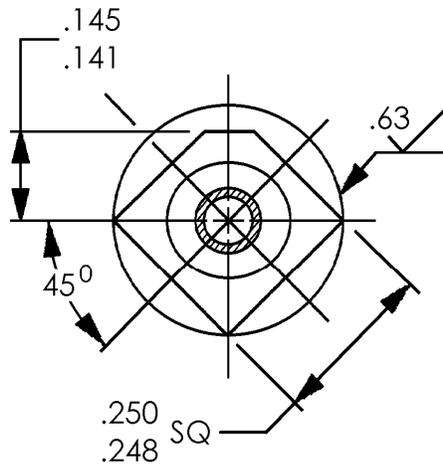


FIGURE 1. Styles JR 304 AND JRM 300 switches.



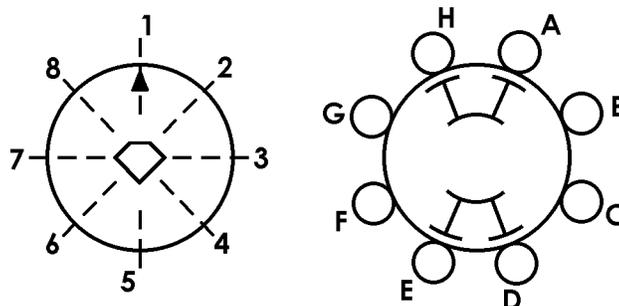
**SECTION A-A**

Inch	mm	Inch	mm
.06	1.52	.266	6.76
.062	1.57	.371	9.42
.125	3.18	.375	9.53
.141	3.58	.38	9.6
.145	3.68	.50	12.7
.164	4.17	.63	16.0
.248	6.30	1.50	38.10
.250	6.35	2.28	57.91
.25	6.4	2.81	71.37
.266	6.76	3.25	82.55

**NOTES:**

1. Dimensions are in inches.
2. Metric equivalents (to the nearest 0.01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. Unless otherwise specified, tolerances are  $\pm .016$  (0.41 mm) for two-place decimals and  $\pm 0.005$  (0.13 mm) for three-place decimals.
4. Detent mechanism in JR 304; spring return in JRM 300

FIGURE 1. Styles JR 304 and JRM 300 switches - Continued.



**HANDLE POSITIONS**

**SH 11314**

**TYPICAL SECTION**

**DOUBLE POLE  
DOUBLE BREAK**

**ROTOR DESIGNATION 2**

NOTE: Viewed from the handle end.

FIGURE 2. Rotor contact configuration and handle positions.

**REQUIREMENTS:**

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

Angle of throw: 45 degrees.

Switching action:

JR 304: Detent.

JRM 300: Switch provides for spring return from position 6 to position 1, and from position 4 to position 1.

Internal stops and stop mechanisms are not available and the use of external stops is required to limit travel to a lesser number of positions.

Electrical loads:

AC current: 10 amperes.

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

Temperature rise: 30°C maximum.

Contact material:

Rotor: Silver-overlay phosphor bronze.

Stator: Silver-overlay copper.

Barriers: See figure 1.

Terminal marking: See figure 1.

Stop marking: See figure 1.

Qualification samples: See table II.

TABLE I. Type designation and switching characteristics.

Component	Style <u>1/</u>	Rotor designation <u>2/</u>	No. of sections	Operating positions	Approx. weight (ounces)	Maximum rotational torque (inch-pounds)
S	JR 304	2	3	8	17	15
S	JRM 300	2	3	3	17	30

1/ Style and type designations are synonymous for JR 304 and JRM 300, respectively.

2/ For rotor designation, see figure 2.

TABLE II. Qualification test sample.

Sample switch	Test number <u>1/</u>	Sample switch	Test number
S2JR304	1	S2JRM300	1
S2JR304	2	S2JRM300	2
S2JR304	3	S2JRM300	3
S2JR304	4	S2JRM300	4
S2JR304	5	S2JRM300	5
S2JR304	6	S2JRM300	6

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

2/ For group qualifications, see 4.5.1.

The margins of this specification are marked with vertical lines to indicate where modifications from this amendment 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.

## Reference Documents:

MIL-DTL-21604

## Custodians:

Navy - SH  
DLA - CC

## Preparing activity:

DLA - CC

(Project 5930-2009-010)

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/>.