

INCH-POUND
 MS24614L
 w/Amendment 1
 13 November 2014
 SUPERSEDING
 MS24614L
 5 October 2011

DETAIL SPECIFICATION SHEET

SWITCH, TOGGLE, POSITIVE BREAK, LEVER LOCK, ENVIRONMENTALLY SEALED,
 SCREW TERMINAL, FOUR POLE, .469 MOUNTING BUSHING, 25 AMPERES

Inactive For new design after 24 JUNE 2005

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

The requirements for acquiring the products described herein shall consist of this specification sheet and MIL-DTL-8834.

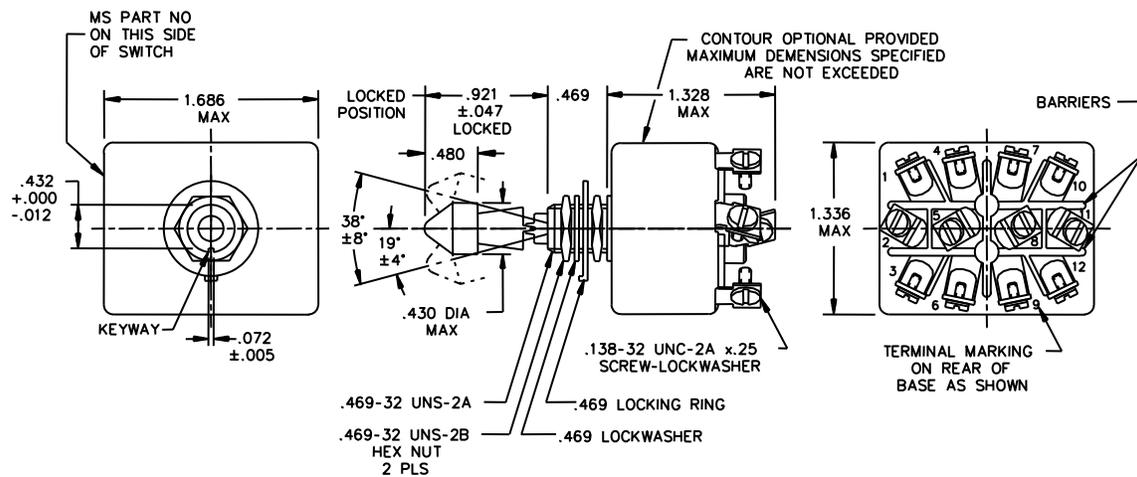


FIGURE 1. Dimensions and configuration.

KEYING SIDE
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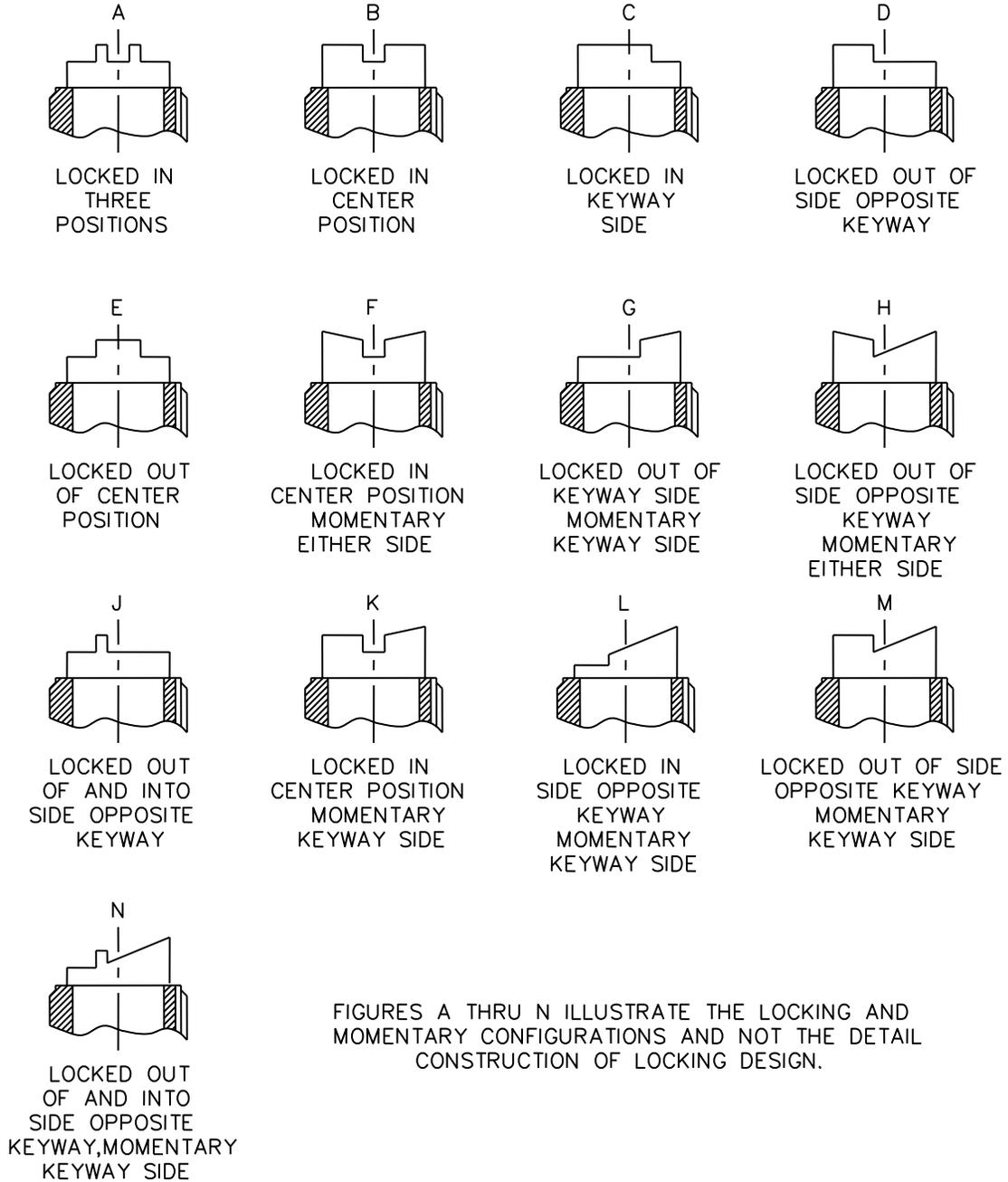


FIGURE 1. Dimensions and configuration - Continued.

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MS dash number	Superseded dash number sealed			Inches	mm	Inches	mm
	Toggle	Environmental	Toggle				
-212	-21	-21S	-211	.005	0.13	.432	10.97
-222	-22	-22S	-221	.012	0.30	.469	11.91
-232	-23	-23S	-231	.047	1.19	.480	12.19
-242	-24	-24S	-241	.072	1.83	.921	23.39
-262	-26	-26S	-261	.138	3.51	1.328	33.73
-272	-27	-27S	-271	.250	6.35	1.336	33.93
-282	-28	-28S	-281	.430	10.92	1.686	42.82
-292	-29	-29S	-291				
-302	-30	-30S	-301				
-312	-31	-31S	-311				

Maximum vibration detail	
Acceleration	Frequency
<u>G-units</u>	<u>Hz</u>
20 G's	85-200
10 G's	200-500

Example of Part or Identifying Number (PIN):

MS24614-B212 = on-off-on, environmentally sealed, locked in center off position.

MS24614-F272 = mom-on, off, mom-on, environmentally sealed, locked in center off position.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± 0.010 (0.25 mm) on decimals and $\pm 0.5^\circ$ on angles.

FIGURE 1. Dimensions and configuration - Continued.

REQUIREMENTS:

For hardware and terminal screw detail specifications, see appendix of MIL-DTL-8834.

In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence.

The superseded dash numbers are inactive for design after 20 July 1962.

The MS dash numbers supersede and are completely interchangeable with the superseded dash numbers.

Unlocking force = 4 ± 1 pound.

Maximum weight: .2231 pound maximum (101.2 grams).

Altitude requirements: 80,000 feet.

115 V ac 60 hertz electrical endurance tests are to be performed at room temperature and pressure.

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TABLE I. Detail requirements.

MS dash no.	Locking comb.	Circuit made between terminals as indicated with the toggle lever in these positions:			
		Opposite keyway side	Center position	Keyway side	
212	A, B, C, D, E	on 2-3, 5-6, 8-9, 11-12	off	on 1-2, 4-5, 7-8, 10-11	
222	C, E		none	off	
232				on 1-2, 4-5, 7-8, 10-11	
242	J, B		off	none	
262	L		none	mom-on 1-2, 4-5, 7-8, 10-11	
272	F, H		mom-no 2-3, 5-6, 8-9, 11-12		off
282	K		none	none	mom-off
292	L		on 2-3, 5-6, 8-9, 11-12		
302			off		
312	G, K, M, N		on 2-3, 5-6, 8-9, 11-12	off	mom-on 1-2, 4-5, 7-8, 10-11

1/ See footnote at end of table.

TABLE I. Detail requirements - Continued

MS dash no.	Current capacity amperes per pole 28 volts dc			Current capacity amperes per pole 115 volts 400 hertz			Circuit capacity amperes per pole 115 volts 60 hertz		
	Lamp load circuit	Resis-tive circuit	Induc-tive circuit	Lamp load circuit	Resis-tive circuit	Induc-tive circuit	Lamp load circuit	Resis-tive circuit	Induc-tive circuit
212	7	25	15	7	25	15	7	20	15
222									
232									
242									
262									
272									
282									
292									
302									
312									

1/ See footnote at end of table.

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TABLE I. Detail requirements - Continued

MS dash no.	Current capacity amperes per pole 250 volts 60 hertz ac ^{1/}			Current capacity amperes per pole 125 volts dc ^{1/}			Circuit capacity amperes per pole 250 volts dc ^{1/}			Life low current level switching 30 mV
	Environmentally sealed	Lamp load circuit	Resistive circuit	Inductive circuit	Lamp load circuit	Resistive circuit	Inductive circuit	Lamp load circuit	Resistive circuit	
212										
222										
232										
242										
262		10	7		750 mA	---		500 mA	---	10 mA
272										
282										
292										
302										
312										

^{1/} Application information ratings at room temperature.

Referenced documents:
MIL-DTL-8834

Changes from previous issue. 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.

Custodians:
Army - CR
Navy - AS
Air Force - 85
DLA - CC

Preparing activity:
DLA – CC
(Project 5930-2014-016)

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/>