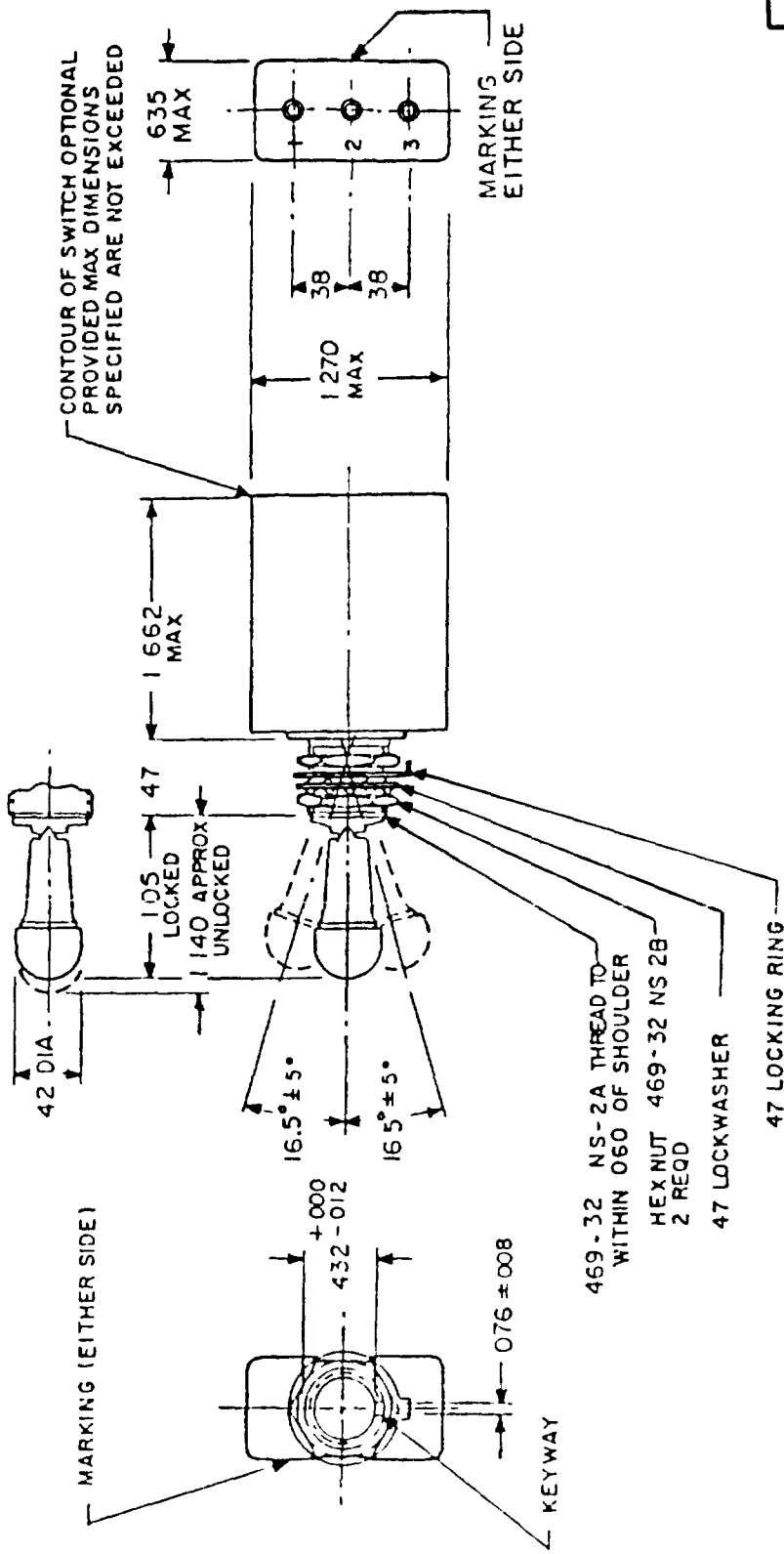
FED SUP CLASS
5930



© Denotes changes

APPROVED 15 May 1972 REVISED (A) 14 May 1974 (B) 25 Apr 1975 (C) 28 Sep 1987

Air Force - 85 Other Cust Army - CR Navy - AS	International interest	TITLE SWITCH, TOGGLE, ONE POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK, INTEGRATED WIRE TERMINALS	MILITARY STANDARD MS27787
Procurement Specification MIL-S-3950		SUPERSEDES	PAGE 1 OF 4

DD FORM 1 MAY 73 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
AMSC N/A

5930-1358-26

DISTRIBUTION STATEMENT A Approved for public release, distribution is unlimited

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

Review activities: Army - AV, Navy - EC, Air Force - 99, DLA - ES

User activity: Air Force - 11

Inches	mm	Inches	mm
005	0.13	432	10.97
.008	0.20	469	11.91
.012	0.30	.47	11 9
.020	0 51	.635	16.13
.060	1 52	1.05	26.7
.076	1.93	1.140	28.96
.38	9.7	1 270	32.26
42	10.7	1 662	42.21

NOTES

1. Dimensions are inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ±.020 (0.51 mm) for two place decimals and ±.005 (0.13 mm) for three place decimals.
4. For hardware detail specifications see appendix of MIL-S-3950.
5. © Contact installing/removal tool in accordance with M81969/14-02.
6. © Grommet sealing plug, in accordance with MS27488A20.
7. The sealing grommet shall seal on a smooth wire insulation of .040 (1.02 mm) to .083 (2.11 mm) diameters.
8. © Terminal shall adequately accept a wire contact within dimensional limits of M39029/1-101.
9. The terminal end of switch shall be color coded red to indicate contact size.
10. Direction of internal mechanism movement is opposite to the direction of the toggle movement.
11. Sealing plugs may be used in nonfunctional grommet holes
12. Maximum weight is .108 pound
13. Locking arrangement Positive locking shall be accomplished and shall prevent motion of the toggle lever until the locking mechanism is manually realeased.
14. The force required to release the locking mechanism shall be 3 to 5 pounds.
15. The locking means at the top of the toggle bushing shall be capable of withstanding a torque of 20 inch-pounds applied in both directions immediately following the humidity test.
16. Part number example. MS27787-21A (locking combination 'A').
17. © In the event of a conflict between the text of this standard and the reference cited herein, the text of this standard shall take precedence.
18. © Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation form a part of this standard to the extent specified herein

For changes see page 2

APPROVED 15 May 1972 REVISED ©

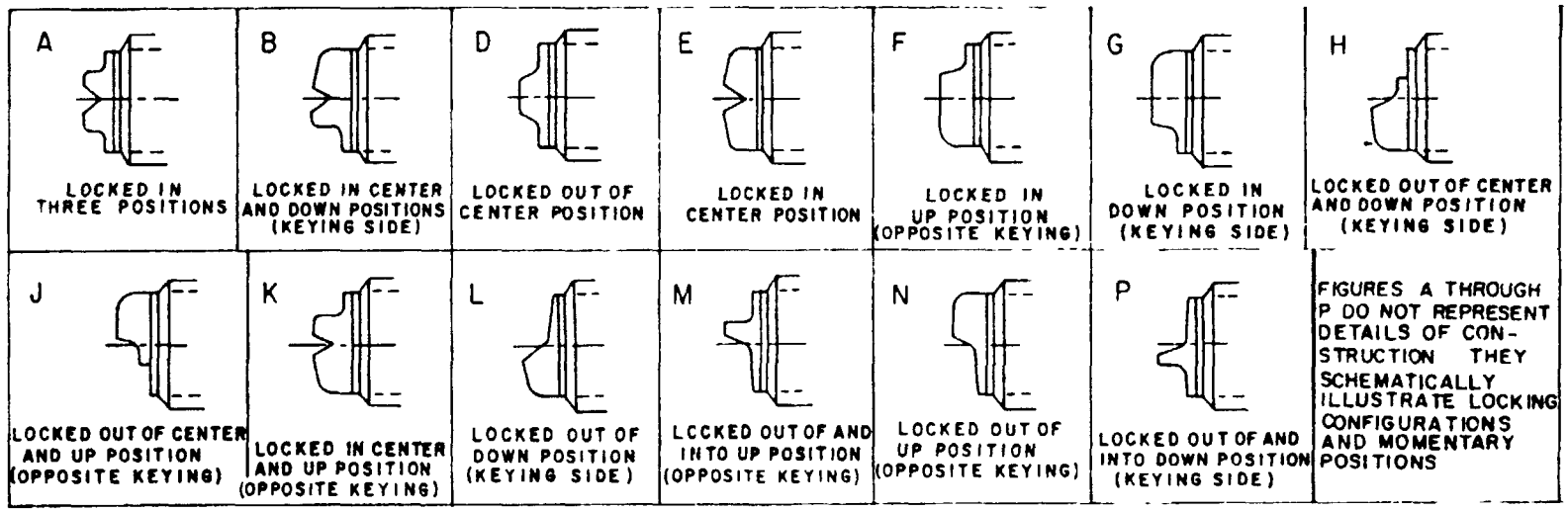
User activities Army - Navy Air Force - 11
Review activities Army - AV Navy - EC Air Force - 99 DLA - ES
This military standard is approved for use by all Departments and Agencies of the Department of Defense Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

Review activities: Army - AV; Navy - EC; Air Force - 99; DLA - ES

User activity: Air Force - 11

Locking combinations



FED SUP CLASS 5930

APPROVED 15 May 1972 REVISED (C) For changes see page 2

P A Air Force - 85
Other Cust Army - ER Navy - AS

International interest

Procurement Specification MIL-S-3950

TITLE SWITCH, TOGGLE, ONE POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK, INTEGRATED WIRE TERMINALS

SUPERSEDES

MILITARY STANDARD

MS27787

DD FORM 1 MAY 73 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Detail requirements

MS part number	Available locking combinations	Circuit with toggle lever in			Current capacity (amperes) 28 volts dc			Current capacity (amperes) 115 volts, 60 and 400 hertz ac		
		Keying side	Center	Opposite keying side	Lamp-load circuit	Resistive circuit	Inductive circuit	Lamp-load circuit	Resistive circuit	Inductive circuit
MS27787-21	All	1-2 On	Off	2-3 On						
MS27787-22	D, F, G	Off	None	2-3 On	5	7.5	7.5	3	7.5	7.5
MS27787-23	D, F, G	1-2 On	None	2-3 On						
MS27787-24	E, F, K, M	None	Off	2-3 On						
MS27787-25	F	None	Mom off	2-3 On						
MS27787-26	F	1-2 Mom on	None	2-3 On						
MS27787-27	E, L, N	1-2 Mom. on	Off	2-3 Mom. on						
MS27787-28	E	1-2 Mom. on	Off	None	4	7.5	7.5	2	7.5	7.5
MS27787-29	F	Mom. off	None	2-3 On						
MS27787-30	F	1-2 Mom. on	None	Off						
MS27787-31	E, F, K, L, M, N	1-2 Mom on	Off	2-3 On						
MS27787-32	E	None	On 1-2	2-3 Mom on						
MS27787-33	E, F, K, M	None	On 1-2	2-3 On	5	7.5	7.5	3	7.5	7.5

Test requirements

Test shall be performed in accordance with MIL-S-3950 except

a. During all tests, switches shall be fully wired with appropriate wire and terminal contacts.
b. Contact voltage drop - the contact voltage drop with two terminals and the switch contact in series shall not exceed 8 millivolts measured from one wire contact through the contacts to the other wire contacts