MILITARY SPECIFICATION

SWITCHES, TOGGLE, UNSEALED AND SEALED TOGGLE, GENERAL SPECIFICATION FOR

This supplement forms a part of MIL-S-83731A, dated 26 January 1976.

SPECIFICATION SHEETS

MIL-S-83731/9	-	Switches, Toggle, Miniature, Lever Seal, Panel Seal, Single Pole.
MIL-S-83731/10	-	Switches, Toggle, Miniature, Lever Seal, Panel Seal, Double Pole
MIL-S-83731/11	-	Switches, Toggle, Miniature, Lever Lock, Single Pole, Unsealed
MIL-S-83731/12	-	Switches, Toggle, Miniature, Lever Lock, Double Pole, Unsealed
MIL-S-83731/13	-	Switches, Toggle, Miniature, Right Angle (Vertical) PCB Mount, Single Pole, Lever Seal, Flux Seal.
MIL-S-83731/14	-	Switches, Toggle, Miniature, Right Angle (Vertical) PCB Mount, Double Pole, Lever Seal, Flux Seal.
MIL-S-63731/15	-	Switches, Toggle, Miniature, Right Angle (Horizontal) PCB Mount, Single Pole, Lever Seal, Flux Seal
MIL-S-83731/16	-	Switches, Toggle, Miniature, Right Angle (Horizontal) PCB Mount, Double Pole, Lever Seal, Flux Seal.
MIL-S-83731/17(USAF)	-	Switches, Toggle, Subminiature, Sealed Lever, Flux Sealed, One, Two, and Four Pole, High and Low Level Contacts
MIL-S-83731/18(USAF)	-	Switches, Toggle, Subminiature, Sealed Lever, Flux Sealed, One, Two, and Four Pole, Right Angle (Horizontal and Vertical) PCB Mount, Low-Level Contacts.
MIL-S-83731/19(USAF)	-	Switches, Toggle, Subminiature, Lever Lock, Sealed Lever, Flux Sealed - One, Two, and Four Pole, High and Low Level Contacts
MIL-S-83731/20(USAF)	-	Switches, Toggle, Subminiature, Lever Lock, Sealed Lever, Flux Sealed, Right Angle PC Board Mount - One, Two, and Four Pole, Low Level Contacts.
MIL-S-83731/21(USAF)	-	Switches, Toggle, Miniature, Lever Seal, Panel Seal, Four Pole Logic Load to 5 Amperes
MIL-S-83731/22(USAF)	-	Switches, Toggle, Miniature, Lever Lock, Four Pole, Unsealed, Logic Load to 5 Amperes.

MS MILITARY STANDARDS

MS18150	-	Switch, Toggle, 2 Circuit, Sealed Toggle.
MS18151	-	Switch, Toggle, One Pole, Sealed Toggle.
MS18152	-	Switch, Toggle, Two Pole, Sealed Toggle.
* MS25068	-	Switch, Toggle, Four Pole, Sealed Toggle.
* MS25098	-	Switch, Toggle, One Pole, Sealed Toggle.
* MS25100	-	Switch, Toggle, Two Pole, Sealed Toggle.
* MS25125	-	Switch, Toggle, One Pole, Sealed Toggle, Lever Lock
* MS25126	-	Switch, Toggle, Two Pole, Sealed Toggle, Lever Lock
* MS25127	-	Switch, Toggle, Four Pole, Sealed Toggle, Lever Lock.
MS25201	-	Switch, Toggle, Two Pole, Sealed Toggle.
MS27716	-	Switch, Toggle, Miniature, Single Pole, Unsealed.
MS27717	-	Switch, Toggle, Miniature, Double Pole, Unsealed
MS27718	-	Switch, Toggle, Miniature, Single Pole, Toggle Seal
MS27719	-	Switch, Toggle, Miniature, Double Pole, Toggle Seal

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MS27720 - Switch, Toggle, Miniature, Single Pole, Toggle Seal, Lever Lock
MS27721 - Switch, Toggle, Miniature, Double Pole, Toggle Seal, Lever Lock
MS27753 - Switch, Toggle, Miniature, Double Pole, Toggle Seal.
MS27754 - Switch, Toggle, Miniature, Double Pole, Toggle Seal, Lever Lock
MS27790 - Switch, Toggle, Miniature, Double Pole, Unsealed.
* MS35058 - Switch, Toggle, One Pole, Sealed Toggle.
* MS35059 - Switch, Toggle, Two Pole, Sealed Toggle.
MS75028 - Switch, Toggle, One Pole, Unsealed
MS75029 - Switch, Toggle, Two Pole, Unsealed.
MS75075 - Switch, Toggle, Two Pole, Unsealed.

* Inactive for new design

TABLE I. Application information for active specification sheets

MIL-S-83731/	Contact form and enclosure design 1/	Size of mounting bushing	Type of termination 2/	Highest electrical resistive rating (amperes)	Life (cycles)		Low level contact testing (cycles)
					Logic level	Resistive level	
9	LS, PS, and TFS Single pole	.250	SL and PC	5 A at 28 V dc	10,000	10,000	N/A
10	LS, PS, and TFS Double pole	250	SL and PC	5 A at 28 V dc	10,000	10,000	N/A
11	LL and TFS Single pole	.250	SL and PC	5 A at 28 V dc	10,000	10,000	N/A
12	LL and TFS Double pole	.250	SL and PC	5 A at 28 V dc	10,000	10,000	N/A
13	LS and TFS Single pole	.240 PCB mount	RAV and PC	5 A at 28 V dc	10,000	10,000	N/A
14	LS and TFS Double pole	.240 PCB mount	RAV and PC	5 A at 28 V dc	10,000	10,000	N/A
15	LS and TFS Single pole	.240 PCB mount	RAH and PC	5 A at 28 V dc	10,000	10,000	N/A
16	LS and TFS Double pole	.240 PCB mount	RAH and PC	5 A at 28 V dc	10,000	10,000	N/A
17	LS and TFS 1, 2, and 4 poles	.250	SL and PC	3 A at 28 V dc	10,000	10,000	Yes 20,000
18	LS and TFS 1, 2, and 4 poles	.187 PCB mount	RAH/V and PC	Low level 4 A at 20 V dc	N/A	N/A	Yes 20,000
19	LL, LS, and TFS 1, 2, and 4 poles	.250	SL and PC	3 A at 28 V dc	N/A	10,000	Yes 20,000

See footnotes at end of table.

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TABLE I. Application information for active specification sheets - Continued.

MIL-S-83731/	Contact form and enclosure design 1/	Size of mounting bushing	Type of termination 2/	Highest electrical resistive rating (amperes)	Life (cycles)		Low level contact testing (cycles)
					Logic level	Resistive level	
20	LL, LS, and TFS 1, 2, and 4 poles	.250	RA and PC	Low level .4 A at 20 V dc	N/A	N/A	Yes 20,000
21	LS, PS, and TFS Four pole	.250	SL and PC	Logic load 5 A at 28 V dc	10,000	10,000	N/A
22	LL and TFS Four pole	.250	SL and PC	Logic load 5 A at 28 V dc	10,000	10,000	N/A

1/ Enclosure design types have been abbreviated as follows: Lever seal = LS, panel seal = PS, terminal flux seal = TFS, and lever lock = LL.

2/ Termination types have been abbreviated as follows: Solder lug = SL, printed circuit = PC, right angle = RA, right angle vertical = RAV, right angle horizontal = RAH, and right angle horizontal and vertical = RAH/V.

CONCLUDING MATERIAL

Preparing activity
Air Force - 85

Agent
DLA - ES

(Project 5930-1418)

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