INCH-POUND

MS35059K
15 December 2005
SUPERSEDING
MS35059J
15 November 1980

DETAIL SPECIFICATION SHEET

SWITCH, TOGGLE, TWO POLE, SEALED TOGGLE

INACTIVE FOR NEW DESIGN AFTER 25 FEBRUARY 1987

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

The complete requirements for acquiring the switch described herein shall consist of this specification and the latest issue of MIL-DTL-83731.

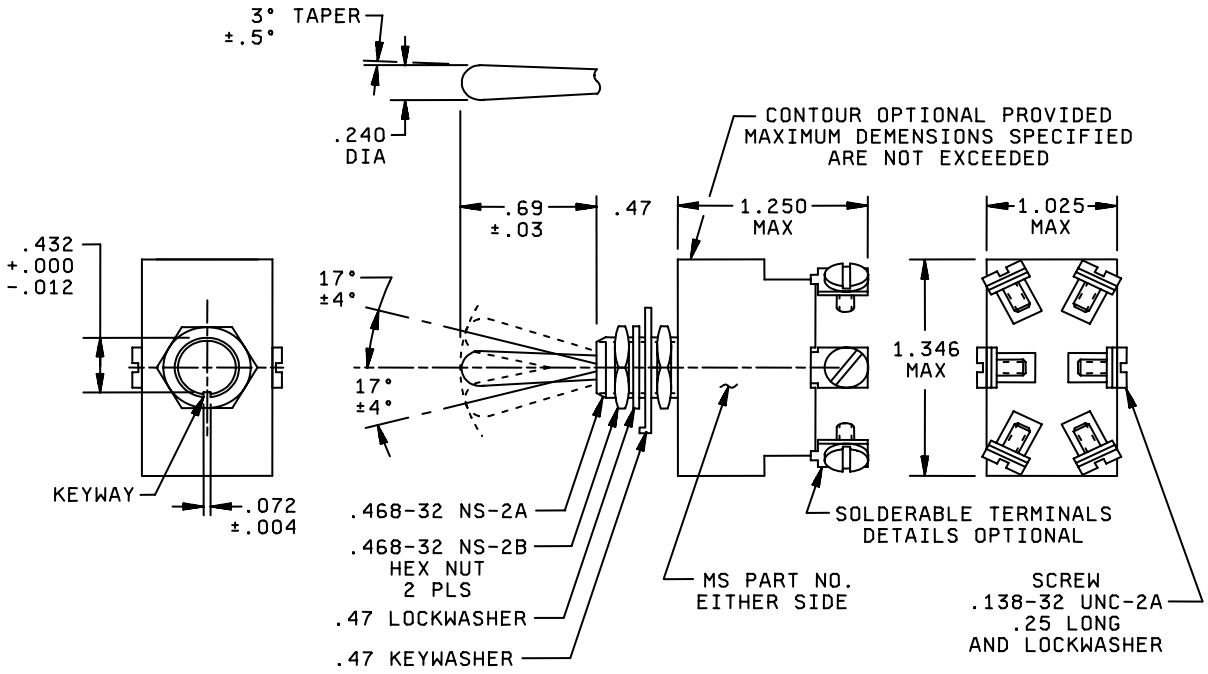


FIGURE 1 Dimensions and configurations

NOTES:

1. For hardware and terminals screw detail specifications see supplement of MIL-DTL-83731.
2. All dimensions are in inches.
3. Unless otherwise specified, Tolerance is ± .02 on two place decimals and ± .005 on three place decimals.
4. For design feature purposes, this standard takes precedence over procurement document referenced herein.

REQUIREMENTS:

All switches on this standard are designed so that the movement of the switch mechanism is opposite to that of the toggle lever.

Maximum weight is 0.10 lbs.

Electrical Endurance: 10,000 cycles.
Mechanical Endurance: 20,000 cycles.

MS part number: See table I.

Referenced documents shall be of the issue in effect on the date of invitation for bid.

Electrical Rating: See table II.

Table I: MS part numbers

| MS Part No. | Former Ms Part No. | | Former AN Part No. | Former Jan Type Designation |
|---|---|---|---|---|
| | Screw-Lug Terminal | Solder-Lug Terminal 1/ | | |
| MS35059-21 | MS35059-5 | - | AN3027-1 | ST50 P |
| | - | MS35059-16 | - | ST52 P |
| MS35059-22 | - | - | AN3027-2 | ST50 K |
| | - | MS35059-9 | - | ST52 K |
| MS35059-23 | MS35059-4 | - | AN3027-3 | ST52 N |
| | - | MS35059-15 | - | ST52N |
| MS35059-24 | MS35059-1 | - | AN3027-9 | - |
| | - | MS35059-12 | - | - |
| MS35059-25 | MS35059-3 | - | AN3027-10 | - |
| | - | MS35059-14 | - | - |
| MS35059-26 | MS35059-6 | - | AN3027-6 | ST50R |
| | - | MS35059-17 | - | ST52R |
| MS35059-27 | MS35059-7 | - | AN3027-7 | ST50S |
| | - | MS35059-18 | - | ST52S |
| MS35059-28 | MS35059-2 | - | AN3027-11 | - |
| | - | MS35059-13 | - | - |
| MS35059-29 | - | - | AN3027-4 | ST50L |
| | - | MS35059-10 | - | ST52L |
| MS35059-30 | - | - | AN3027-5 | ST50M |
| | - | MS35059-11 | - | ST52M |
| MS35059-31 | MS35059-8 | - | AN3027-8 | ST50T |
| | - | MS35059-19 | --- | ST52T |

1/ These MS part numbers are superseded by MS part number MS35059-21 thru MS35059-31 inclusive as applicable. By removing the screws and lockwashers from applicable part, a switch with solder lug terminals is formed.

TABLE II: Detail Requirements

| MS Part No. | Circuit with toggle lever in | | | Current Capacity (amperes per pole) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Direct Current | | | | | | | Alternating Current 400 Hertz | | | Alternating current 60 Hertz | | | |
| | Keying side | Center | Opposite keying side | Lamp-load circuit | Resistive circuit | | | Inductive circuit | | | Lamp load circuit | Resistive circuit | Inductive circuit | Resistive circuit | | Inductive circuit | Lamp load circuit |
| | | | | 28 volts | 28 Volts | 125 Volts | 250 Volts | 28 Volts | 125 Volts | 250 Volts | 115 Volts | 115 Volts | 115 volts | 115 volts | 220 volts | 115 Volts | 115 Volts |
| MS35059-21 | On | Off | On | 7 | 20 | ---- | --- | 15 | ------ | ----- | 4 | 20 | 15 | 20 | ----- | --- | ---- |
| MS35059-22 | Off | None | On | | | | | | | | | | | | | | |
| MS35059-23 | On | None | On | | | | | | | | | | | | | | |
| MS35059-24 | None | Off | On | | | | | | | | | | | | | | |
| MS35059-25 | None | Mom-Off | On | 5 | 18 | ------ | -- | 10 | ------ | ----- | 2 | 11 | 8 | 11 | ----- | ---- | ------- |
| MS35059-26 | Mom-On | None | On | | | | | | | | | | | | | | |
| MS35059-27 | Mom-On | Off | Mom-On | | | | | | | | | | | | | | |
| MS35059-28 | Mom-on | Off | None | | | | | | | | | | | | | | |
| MS35059-29 | Mom-Off | None | On | | | | | | | | | | | | | | |
| MS35059-30 | Mom-on | None | Off | | | | | | | | | | | | | | |
| MS35059-31 | Mom-on | Off | On | | | | | | | | | | | | | | |

Referenced documents
MIL-DTL-83731

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:
Army – CR
Navy – AS
Air Force –11
DLA - CC

Preparing activity:
DLA - CC

Project (5930-2005-021)

Review activities:
Army – AV, MI
Navy – EC
Air Force – 99

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/.