

# 2 TOGGLE SWITCHES

## Military Purpose Toggle Switches

### DESCRIPTION

Eaton's Military Purpose switches are designed to meet the requirements of MIL-S-83731 or JAN-S-23. Sealed Switches have a silicone rubber lever seal assembled between the lever and the bushing to resist the entrance of contaminants such as dust, sand or water into the contact structure.

The switch mechanisms are completely enclosed to resist the entrance of contaminants into the switch. All metal parts are plated to resist corrosion. The Heavy Duty Switches are offered in both Standard Toggle Lever and Lever

Lock versions. Circuit designations are stamped on the side of each switch.

### SPECIFICATIONS

#### Ratings:

See selection table.

#### Circuits:

1PST, 1PDT, 2PST, 2PDT, 1P3T (ON-ON-ON), 4PST and 4PDT.

Maintained and momentary action.

#### Contact Action:

##### Heavy Duty

Slow-make/Slow-break butt contact.

##### Medium Duty

Quick-make/Quick break, wiping action.

#### Contact Material:

##### Heavy Duty

Movable — Silver plated copper with fine or coin silver contact face button.

Stationary — Copper with fine or coin silver contact face button.

##### Medium Duty

Movable — Copper silver plated.  
Stationary — Bronze silver plated.

**AC/DC RATED (MEDIUM DUTY) MIL-S-83731 SWITCHES SELECTION TABLE** (BOLD FACE TYPE INDICATES ITEMS NORMALLY IN DISTRIBUTOR STOCK)

| Rating                           | Poles and Throw | Circuit with Toggle in                                                                                |                                                                                                           |                                                                                                                     | BASE<br>CIRCUIT<br>SEE<br>PAGE 4.28 | Dimension "A"<br>mm (inches) | Dimension "B"<br>mm (inches)                 | CATALOG NUMBERS                              |                                             |
|----------------------------------|-----------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------|----------------------------------------------|----------------------------------------------|---------------------------------------------|
|                                  |                 | UP<br>Position<br> | CENTER<br>Position<br> | DOWN<br>Position<br><br>(Keyway) |                                     |                              |                                              | Military or JAN (ST)<br>Solder Lug Terminals |                                             |
|                                  |                 |                                                                                                       |                                                                                                           |                                                                                                                     |                                     |                              |                                              | MIL-S-83731<br>With Sealed Lever             | Catalog<br>Number                           |
| SINGLE POLE                      |                 |                                                                                                       |                                                                                                           |                                                                                                                     | SINGLE POLE                         |                              |                                              |                                              |                                             |
| <b>1</b><br><b>1</b><br><b>1</b> | 1 P.S.T.        | ON<br>ON<br>OFF                                                                                       | NONE<br>NONE<br>NONE                                                                                      | OFF<br>OFF*<br>ON*                                                                                                  | A                                   | —<br>—<br>—                  | 23.01 (.906)<br>23.01 (.906)<br>23.01 (.906) | MS25098-22<br>MS25098-29<br>MS25098-30       | <b>8261K22</b><br>8261K29<br>8261K30        |
| <b>1</b><br><b>1</b><br><b>1</b> | 1 P.D.T.        | ON<br>ON                                                                                              | NONE<br>NONE                                                                                              | ON<br>ON*                                                                                                           | B                                   | 23.80 (.937)<br>23.80 (.937) | —<br>—                                       | MS25098-23<br>MS25098-26                     | <b>8261K23</b><br>8261K26                   |
| DOUBLE POLE                      |                 |                                                                                                       |                                                                                                           |                                                                                                                     | DOUBLE POLE                         |                              |                                              |                                              |                                             |
| <b>2</b><br><b>2</b><br><b>2</b> | 2 P.S.T.        | ON<br>ON<br>OFF                                                                                       | NONE<br>NONE<br>NONE                                                                                      | OFF<br>OFF*<br>ON*                                                                                                  | C                                   | —<br>—<br>—                  | 23.01 (.906)<br>23.01 (.906)<br>23.01 (.906) | MS25100-22<br>MS25100-29<br>MS25100-30       | <b>8262K22</b><br>8262K29<br><b>8262K30</b> |
| <b>3</b><br><b>3</b><br><b>3</b> | 2 P.D.T.        | ON<br>ON                                                                                              | NONE<br>NONE                                                                                              | ON<br>ON*                                                                                                           | D                                   | 23.80 (.937)<br>23.80 (.937) | —<br>—                                       | MS25100-23<br>MS25100-26                     | <b>8262K23</b><br>8262K26                   |

\* Momentary Contact.

### CURRENT RATINGS

| Code<br>From<br>Selection<br>Table | Part<br>Number     | CURRENT CAPACITY IN AMPERES PER POLE |                   |
|------------------------------------|--------------------|--------------------------------------|-------------------|
|                                    |                    | 125V ac, 60 Hz                       |                   |
|                                    |                    | Resistive<br>Load                    | Inductive<br>Load |
| <b>1</b>                           | All MS25098        | 3.0                                  | 1.5               |
| <b>2</b>                           | MS25100-22, 29, 30 | 3.0                                  | 1.5               |
| <b>3</b>                           | MS25100-23, 26     | 1.0                                  | 1.0               |

## Terminal Types:

### Heavy Duty

#### MIL-S-83731 Types

Screw Terminals — Brass designed to accept #6-32 x 6.35mm (.250") pan head (Cat. No. 11-1893) screws and Si bronze #6 Helical lockwasher (Cat. No. 16-1096).  
Furnished unassembled.  
Terminal screws are tin dipped to facilitate soldering if required.

#### Heavy Duty Jan-S-23 Types

Screw Terminals — Brass designed to accept #6-32 x 4.78mm (.188") binding head (Cat. No. 811-2) screws.  
Furnished unassembled.

Solder Lug Terminals — Tintillate plated brass.

### Medium Duty

#### MIL-S-83731 Types

Solder Lugs — Brass silver plated furnished with 2.39mm (.094") dia. hole.

### Base Material:

Thermoset molding material.

### Mounting Means:

Threaded Bushing — 11.89mm (.468") dia., 32 threads/inch.

Keyway — 1.73 x .89mm deep (.068 x .035" deep) — provides anti-rotation feature.

## Hardware Supplied —

### MIL-S-83731 Types:

2 hexagon facenuts (Cat. No. 15-966-6),  
1 locking ring (Cat. No. 29-761) and  
1 internal tooth lockwasher (Cat. No. 16-886).  
Furnished unassembled.

### Jan-S-23 Types:

2 hexagon facenuts (Cat. No. 15-966-6).  
Furnished unassembled.

### Dielectric:

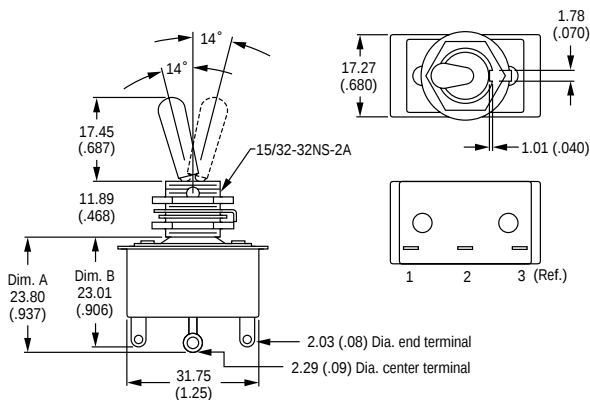
1000V RMS minimum.

### Operating Temperature Range:

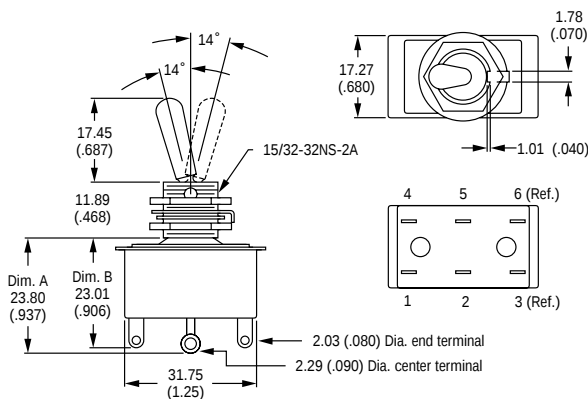
-17.8°C to +65.6°C  
(0°F to +150°F).

## DIMENSIONS APPROXIMATE IN MM (INCHES)

### 1PDT MAINTAINED ACTION (SOLDER LUG)



### 2PDT MAINTAINED ACTION (SOLDER LUG)



8261K22  
Medium Duty



8262K22  
Medium Duty



8801K22  
Heavy Duty



8820K16  
Heavy Duty

# 2 TOGGLE SWITCHES

## Military Purpose Toggle Switches (continued) AC Rated (Heavy Duty) MIL-S-83731 Switches with Lever Seal

**AC RATED (HEAVY DUTY) MIL-S-83731 SWITCHES SELECTION TABLE** (BOLD FACE TYPE INDICATES ITEMS NORMALLY IN DISTRIBUTOR STOCK)

| Rating    | Poles and Throw            | Circuit with Toggle in                                                            |                                                                                   |                                                                                               | BASE CIRCUIT<br>SEE<br>PAGE 4.28 | Bushing Length<br>"A" mm (inches) | Lever Length<br>"B" mm (inches) | CATALOG NUMBERS                      |                         |
|-----------|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------|---------------------------------|--------------------------------------|-------------------------|
|           |                            |  |  | <br>(Keyway) |                                  |                                   |                                 | Screw Terminals<br>with Sealed Lever |                         |
|           |                            |                                                                                   |                                                                                   |                                                                                               |                                  |                                   |                                 | MS Part<br>Number                    | Catalog<br>Number       |
| ONE POLE  |                            |                                                                                   |                                                                                   |                                                                                               | ONE POLE                         |                                   |                                 |                                      |                         |
| <b>1</b>  | 1 P.S.T.                   | ON                                                                                | NONE                                                                              | OFF                                                                                           | A                                | 11.89 (.468)                      | 17.45 (.687)                    | MS35058-22                           | <b>8801K22</b>          |
| <b>1</b>  |                            | ON                                                                                | OFF                                                                               | NONE                                                                                          |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35058-24                           | <b>8801K23</b>          |
| <b>2</b>  |                            | ON                                                                                | NONE                                                                              | OFF*                                                                                          |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35058-29                           | <b>8813K17</b>          |
| <b>2</b>  |                            | ON                                                                                | OFF*                                                                              | NONE                                                                                          |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35058-25                           | <b>8813K18</b>          |
| <b>2</b>  |                            | NONE                                                                              | OFF                                                                               | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35058-28                           | <b>8811K18</b>          |
| <b>2</b>  |                            | OFF                                                                               | NONE                                                                              | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35058-30                           | <b>8811K17</b>          |
| <b>1</b>  | 1 P.D.T.                   | ON                                                                                | OFF                                                                               | ON                                                                                            | B                                | 11.89 (.468)                      | 17.45 (.687)                    | MS35058-21                           | <b>8800K16</b>          |
| <b>1</b>  |                            | ON                                                                                | NONE                                                                              | ON                                                                                            |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35058-23                           | <b>8810K15</b>          |
| <b>2</b>  |                            | ON                                                                                | NONE                                                                              | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35058-26                           | <b>8804K13</b>          |
| <b>2</b>  |                            | ON*                                                                               | OFF                                                                               | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35058-27                           | <b>8812K14</b>          |
| <b>2</b>  |                            | ON                                                                                | OFF                                                                               | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35058-31                           | <b>8809K16</b>          |
| <b>2</b>  |                            | ON                                                                                | OFF                                                                               | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    |                                      |                         |
| TWO POLE  |                            |                                                                                   |                                                                                   |                                                                                               | TWO POLE                         |                                   |                                 |                                      |                         |
| <b>3</b>  | 2 P.S.T.                   | ON                                                                                | NONE                                                                              | OFF                                                                                           | C                                | 11.89 (.468)                      | 17.45 (.687)                    | MS35059-22                           | <b>8822K20</b>          |
| <b>3</b>  |                            | ON                                                                                | OFF                                                                               | NONE                                                                                          |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35059-24                           | <b>8822K21</b>          |
| <b>4</b>  |                            | ON                                                                                | NONE                                                                              | OFF*                                                                                          |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35059-29                           | <b>8828K13</b>          |
| <b>4</b>  |                            | ON                                                                                | OFF*                                                                              | NONE                                                                                          |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35059-25                           | <b>8828K12</b>          |
| <b>4</b>  |                            | NONE                                                                              | OFF                                                                               | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35059-28                           | <b>8826K14</b>          |
| <b>4</b>  |                            | OFF                                                                               | NONE                                                                              | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35059-30                           | <b>8826K15</b>          |
| <b>3</b>  | 2 P.D.T.                   | ON                                                                                | OFF                                                                               | ON                                                                                            | D                                | 11.89 (.468)                      | 17.45 (.687)                    | MS35059-21                           | <b>8820K16</b>          |
| <b>3</b>  |                            | ON                                                                                | NONE                                                                              | ON                                                                                            |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35059-23                           | <b>8824K14</b>          |
| <b>4</b>  |                            | ON                                                                                | NONE                                                                              | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35059-26                           | <b>8830K13</b>          |
| <b>4</b>  |                            | ON*                                                                               | OFF                                                                               | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35059-27                           | <b>8834K5</b>           |
| <b>4</b>  |                            | ON                                                                                | OFF                                                                               | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS35059-31                           | <b>8832K6</b>           |
| <b>4</b>  |                            | ON                                                                                | OFF                                                                               | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    |                                      |                         |
| <b>5</b>  | 1 P.3.T<br>in a<br>2P Base | ON <b>3</b>                                                                       | ON <b>3</b>                                                                       | ON <b>10</b>                                                                                  | See<br>Diagram<br>On Page 4.28   | 11.89 (.468)                      | 17.45 (.687)                    | MS25201-4                            | <b>8860K4</b>           |
| <b>5</b>  |                            | ON <b>3</b>                                                                       | ON <b>3</b>                                                                       | ON* <b>10</b>                                                                                 |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS25201-5                            | <b>8860K5</b>           |
| <b>5</b>  |                            | ON* <b>3</b>                                                                      | ON <b>3</b>                                                                       | ON* <b>10</b>                                                                                 |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS25201-6                            | <b>8860K6</b>           |
| <b>5</b>  |                            | ON <b>3</b>                                                                       | ON <b>11</b>                                                                      | ON <b>10</b>                                                                                  |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS25201-7                            | <b>8860K7</b> <b>12</b> |
| <b>5</b>  |                            | ON <b>4</b>                                                                       | ON <b>11</b>                                                                      | ON* <b>10</b>                                                                                 |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS25201-8                            | <b>8860K8</b> <b>12</b> |
| <b>5</b>  |                            | ON* <b>3</b>                                                                      | ON <b>11</b>                                                                      | ON* <b>10</b>                                                                                 |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS25201-9                            | <b>8860K9</b> <b>12</b> |
| FOUR POLE |                            |                                                                                   |                                                                                   |                                                                                               | FOUR POLE                        |                                   |                                 |                                      |                         |
| <b>6</b>  | 4 P.S.T.                   | ON                                                                                | NONE                                                                              | OFF                                                                                           | E                                | 11.89 (.468)                      | 17.45 (.687)                    | —                                    | <b>7660K12</b>          |
| <b>6</b>  |                            | ON                                                                                | OFF                                                                               | NONE                                                                                          |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS25068-24                           | 7660K13                 |
| <b>7</b>  |                            | ON                                                                                | OFF*                                                                              | NONE                                                                                          |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS25068-25                           | <b>7668K7</b>           |
| <b>7</b>  |                            | NONE                                                                              | OFF                                                                               | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS25068-28                           | 7666K9                  |
| <b>7</b>  |                            | OFF                                                                               | NONE                                                                              | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | —                                    | <b>7666K6</b>           |
| <b>7</b>  |                            | OFF                                                                               | NONE                                                                              | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    |                                      |                         |
| <b>6</b>  | 4 P.D.T.                   | ON                                                                                | OFF                                                                               | ON                                                                                            | F                                | 11.89 (.468)                      | 17.45 (.687)                    | MS25068-21                           | 7662K7                  |
| <b>6</b>  |                            | ON                                                                                | NONE                                                                              | ON                                                                                            |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS25068-23                           | 7664K5                  |
| <b>7</b>  |                            | ON                                                                                | NONE                                                                              | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS25068-26                           | <b>7674K5</b>           |
| <b>7</b>  |                            | ON*                                                                               | OFF                                                                               | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS25068-27                           | <b>7672K5</b>           |
| <b>7</b>  |                            | ON                                                                                | OFF                                                                               | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    | MS25068-31                           | 7670K6                  |
| <b>7</b>  |                            | ON                                                                                | OFF                                                                               | ON*                                                                                           |                                  | 11.89 (.468)                      | 17.45 (.687)                    |                                      |                         |

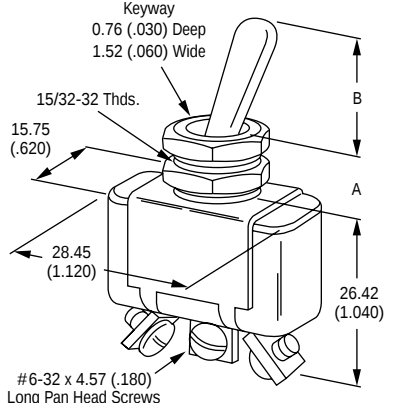
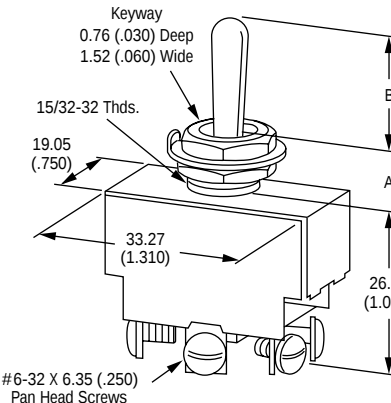
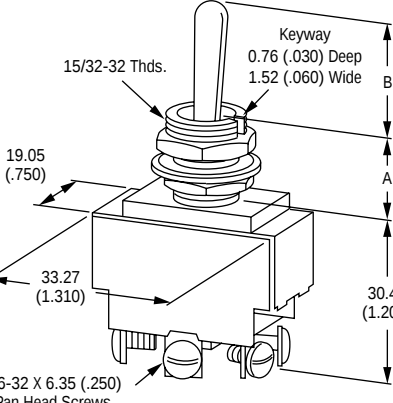
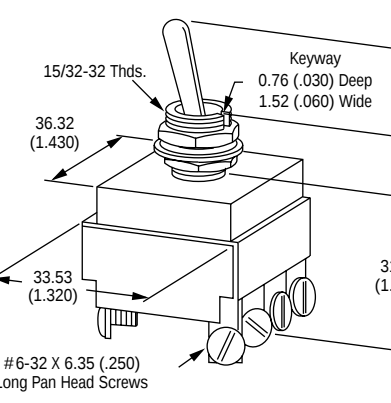
\* Momentary Contact.

### CURRENT RATINGS

| Code From Selection Table | Switch  | Type of Operation    | CURRENT CAPACITY IN AMPERES PER POLE |                |                |                |                |                |                 |                |                |
|---------------------------|---------|----------------------|--------------------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|
|                           |         |                      | 28V dc                               |                |                | 115V ac, 60 Hz |                |                | 115V ac, 400 Hz |                |                |
|                           |         |                      | Lamp Load                            | Resistive Load | Inductive Load | Lamp Load      | Resistive Load | Inductive Load | Lamp Load       | Resistive Load | Inductive Load |
| <b>1</b><br><b>2</b>      | MS35058 | Maintained Momentary | 7<br>5                               | 25<br>20       | 15<br>10       | —<br>—         | 10<br>10       | 10<br>7        | 3<br>—          | 10<br>—        | 10<br>—        |
| <b>3</b><br><b>4</b>      | MS35059 | Maintained Momentary | 7<br>5                               | 20<br>18       | 15<br>10       | —<br>—         | 20<br>11       | —<br>—         | 4<br>—          | 20<br>—        | 15<br>—        |
| <b>5</b>                  | MS25201 | ON-ON-ON             | 5                                    | 18             | 10             | 2              | 11             | 8              | 2               | 11             | 8              |
| <b>6</b><br><b>7</b>      | MS25068 | Maintained Momentary | 5<br>4                               | 20<br>18       | 12<br>10       | —<br>—         | —<br>—         | —<br>—         | 4<br>2          | 20<br>11       | 15<br>5        |

- 3** Across terminals 2-3 and 5-6.  
**4** Across terminals 1-2 and 5-6.  
**10** Across terminals 1-2 and 4-5.  
**11** Across terminals 2-3 and 4-5.  
**12** For "INDEPENDENT ON-ON-ON" circuit arrangement see page 4.28.

## DIMENSIONS APPROXIMATE IN MM (INCHES)

| ONE POLE<br>MAINTAINED & MOMENTARY ACTION                                           | TWO POLE<br>MAINTAINED ACTION                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    |    |
| TWO POLE<br>MOMENTARY ACTION & 3 "ON" CIRCUITS                                      | FOUR POLE<br>MAINTAINED & MOMENTARY ACTION                                           |
|  |  |



**8858K39**  
Heavy Duty



**8859K44**  
Heavy Duty



**7301K36**  
Heavy Duty



**7310K38**  
Heavy Duty

# 2 TOGGLE SWITCHES

## Military Purpose Toggle Switches (continued) AC Rated (Heavy Duty) MIL-S-83731 Lever Lock Switches with Lever Seal

**AC RATED (HEAVY DUTY) MIL-S-83731 LEVER LOCK SWITCHES SELECTION TABLE** (BOLD FACE TYPE INDICATES ITEMS NORMALLY IN DISTRIBUTOR STOCK)

| Rating                                                                            | Poles and Throw | Circuit with Toggle in                                                                        |                                                                                                   |                                                                                                             | BASE CIRCUIT SEE PAGE 4.28 | Lever Lock Bushing Style (see below) | Bushing Length "A" mm (inches) | Lever Lock Length "B" mm (inches) | CATALOG NUMBERS                   |                |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------|--------------------------------|-----------------------------------|-----------------------------------|----------------|
|                                                                                   |                 |  UP Position |  CENTER Position |  DOWN Position<br>(Keyway) |                            |                                      |                                |                                   | Screw Terminals with Sealed Lever |                |
|                                                                                   |                 |                                                                                               |                                                                                                   |                                                                                                             |                            |                                      |                                |                                   | MS Part Number                    | Catalog Number |
| ONE POLE                                                                          |                 |                                                                                               |                                                                                                   |                                                                                                             |                            |                                      |                                |                                   |                                   |                |
|  | 1 P.S.T.        | ON                                                                                            | NONE                                                                                              | ←OFF                                                                                                        | A                          | 3                                    | 14.27 (.562)                   | 25.40 (1.000)                     | MS25125-C2                        | 8857K47        |
|                                                                                   |                 | ON→                                                                                           | NONE                                                                                              | ←OFF                                                                                                        |                            | 4                                    | 14.27 (.562)                   | 25.40 (1.000)                     | MS25125-E2                        | 8857K48        |
|                                                                                   |                 | ON→                                                                                           | ←OFF                                                                                              | NONE                                                                                                        |                            | 5                                    | 14.27 (.562)                   | 25.40 (1.000)                     | MS25125-J4                        | 8857K49        |
|  | 1 P.D.T.        | ON                                                                                            | ←OFF→                                                                                             | ON                                                                                                          | B                          | 2                                    | 14.27 (.562)                   | 25.40 (1.000)                     | MS25125-B1                        | 8857K40        |
|                                                                                   |                 | ON                                                                                            | NONE                                                                                              | ←ON                                                                                                         |                            | 3                                    | 14.27 (.562)                   | 25.40 (1.000)                     | MS25125-C3                        | 8857K45        |
|                                                                                   |                 | ON→                                                                                           | NONE                                                                                              | ←ON                                                                                                         |                            | 4                                    | 14.27 (.562)                   | 25.40 (1.000)                     | MS25125-E3                        | 8857K44        |
| TWO POLE                                                                          |                 |                                                                                               |                                                                                                   |                                                                                                             |                            |                                      |                                |                                   |                                   |                |
|  | 2 P.D.T.        | ON→                                                                                           | ←OFF→                                                                                             | ←ON                                                                                                         | C                          | 1                                    | 14.27 (.562)                   | 25.40 (1.000)                     | MS25126-A1                        | 8858K39        |
|                                                                                   |                 | ON                                                                                            | ←OFF→                                                                                             | ON                                                                                                          |                            | 2                                    | 14.27 (.562)                   | 25.40 (1.000)                     | MS25126-B1                        | 8858K40        |
|                                                                                   |                 | ON→                                                                                           | NONE                                                                                              | ←ON                                                                                                         |                            | 4                                    | 14.27 (.562)                   | 25.40 (1.000)                     | MS25126-E3                        | 8858K44        |
| FOUR POLE                                                                         |                 |                                                                                               |                                                                                                   |                                                                                                             |                            |                                      |                                |                                   |                                   |                |
|  | 4 P.D.T.        | ON→                                                                                           | NONE                                                                                              | ←ON                                                                                                         | F                          | 4                                    | 14.27 (.562)                   | 25.40 (1.000)                     | MS25127-E3                        | 8859K44        |

← Indicates direction against which lever is locked.

### CURRENT RATINGS

| Code From Selection Table | Switch  | Type of Operation | CURRENT CAPACITY IN AMPERES PER POLE |                |                |                |                |                |                 |                |                |
|---------------------------|---------|-------------------|--------------------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|
|                           |         |                   | 28V dc                               |                |                | 115V ac, 60 Hz |                |                | 115V ac, 400 Hz |                |                |
|                           |         |                   | Lamp Load                            | Resistive Load | Inductive Load | Lamp Load      | Resistive Load | Inductive Load | Lamp Load       | Resistive Load | Inductive Load |
| 1                         | MS25125 | Maintained        | 5                                    | 20             | 15             | —              | —              | —              | 3               | 10             | 10             |
| 2                         | MS25126 | Maintained        | 7                                    | 20             | 15             | —              | —              | —              | 4               | 20             | 15             |
| 3                         | MS25127 | Maintained        | 5                                    | 20             | 15             | —              | —              | —              | 4               | 20             | 15             |

### DIMENSIONS APPROXIMATE IN MM (INCHES)

| SINGLE POLE                                                                                                                                                                       | DOUBLE POLE                                                                                                                                                                       | FOUR POLE                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Keyway 0.76 (.030) Deep x 1.52 (.060) Wide</p> <p>15/32-32 Thds.</p> <p>15.75 (.620)</p> <p>28.96 (1.140)</p> <p>28.45 (1.120)</p> <p>#6-32 Screws</p> <p>Dimensions: A, B</p> | <p>Keyway 0.76 (.030) Deep x 1.52 (.060) Wide</p> <p>15/32-32 Thds.</p> <p>22.86 (.900)</p> <p>33.27 (1.310)</p> <p>31.75 (1.250)</p> <p>#6-32 Screws</p> <p>Dimensions: A, B</p> | <p>Keyway 0.76 (.030) Deep x 1.52 (.060) Wide</p> <p>15/32-32 Thds.</p> <p>33.27 (1.310)</p> <p>40.39 (1.590)</p> <p>33.27 (1.310)</p> <p>#6-32 Screws</p> <p>Dimensions: A, B</p> |

### LEVER LOCK BUSHING STYLES

| STYLE 1                   | STYLE 2                    | STYLE 3               | STYLE 4                       | STYLE 5                                   |
|---------------------------|----------------------------|-----------------------|-------------------------------|-------------------------------------------|
|                           |                            |                       |                               |                                           |
| Locked In Three Positions | Locked In Center Positions | Locked In Keyway Side | Locked Out Of Center Position | Locked In Center And Side Opposite Keyway |

1 For pictorial representation only — keyway on right hand side.

## Military Purpose Toggle Switches (continued) AC Rated (Heavy Duty) Military (Jan-S-23 Equivalents) with Unsealed Lever

**AC RATED (HEAVY DUTY) MILITARY JAN-S-23 EQUIVALENTS SELECTION TABLE** (BOLD FACE TYPE INDICATES ITEMS NORMALLY IN DISTRIBUTOR STOCK)

| Rating                               | Poles and Throw | Circuit with Toggle in                                                            |                                                                                   |                                                                                               | BASE CIRCUIT SEE PAGE 4.28 | Bushing Length "A" mm (inches)                                               | Bushing Length "B" mm (inches)                                               | CATALOG NUMBERS                                |                                                                   |                                                |                                                            |
|--------------------------------------|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------|
|                                      |                 |  |  | <br>(Keyway) |                            |                                                                              |                                                                              | Solder Lug Terminals                           |                                                                   | Screw Terminals                                |                                                            |
|                                      |                 |                                                                                   |                                                                                   |                                                                                               |                            |                                                                              |                                                                              | Former Jan-S-23 with Unsealed Lever            | Catalog Number                                                    | Former Jan-S-23 with Unsealed Lever            | Catalog Number                                             |
| ONE POLE                             |                 |                                                                                   |                                                                                   |                                                                                               |                            |                                                                              |                                                                              |                                                |                                                                   |                                                |                                                            |
| <div>①<br/>②<br/>②</div>             | 1 P.S.T.        | ON<br>ON<br>OFF                                                                   | NONE<br>NONE<br>NONE                                                              | OFF<br>OFF*<br>ON*                                                                            | A                          | 11.89 (.468)<br>11.89 (.468)<br>11.89 (.468)                                 | 17.45 (.688)<br>17.45 (.688)<br>17.45 (.688)                                 | ST-42A<br>ST-42B<br>ST-42C                     | <b>7300K38</b><br><b>7304K38</b><br><b>7303K38</b>                | ST-40A<br>ST-40B<br>ST-40C                     | <b>7300K36</b><br>7304K36<br>7303K36                       |
| <div>①<br/>①<br/>②<br/>②<br/>②</div> | 1 P.D.T.        | ON<br>ON<br>ON<br>ON*<br>ON                                                       | OFF<br>NONE<br>NONE<br>OFF<br>OFF                                                 | ON<br>ON<br>ON*<br>ON*<br>ON*                                                                 | B                          | 11.89 (.468)<br>11.89 (.468)<br>11.89 (.468)<br>11.89 (.468)<br>11.89 (.468) | 17.45 (.688)<br>17.45 (.688)<br>17.45 (.688)<br>17.45 (.688)<br>17.45 (.688) | ST-42E<br>ST-42D<br>ST-42F<br>ST-42G<br>ST-42H | <b>7301K38</b><br>7302K38<br>7307K38<br><b>7306K38</b><br>7305K38 | ST-40E<br>ST-40D<br>ST-40F<br>ST-40G<br>ST-40H | 7301K36<br><b>7302K36</b><br>7307K36<br>7306K36<br>7305K36 |
| TWO POLE                             |                 |                                                                                   |                                                                                   |                                                                                               |                            |                                                                              |                                                                              |                                                |                                                                   |                                                |                                                            |
| <div>③<br/>④<br/>④</div>             | 2 P.S.T.        | ON<br>ON<br>OFF                                                                   | NONE<br>NONE<br>NONE                                                              | OFF<br>OFF*<br>ON*                                                                            | C                          | 11.89 (.468)<br>11.89 (.468)<br>11.89 (.468)                                 | 17.45 (.688)<br>17.45 (.688)<br>17.45 (.688)                                 | ST-52K<br>ST-52L<br>ST-52M                     | 7310K38<br>7314K38<br>7313K38                                     | ST-50K<br>ST-50L<br>ST-50M                     | 7310K36<br>7314K36<br>7313K36                              |
| <div>③<br/>③<br/>④<br/>④<br/>④</div> | 2 P.D.T.        | ON<br>ON<br>ON<br>ON*<br>ON                                                       | OFF<br>NONE<br>NONE<br>OFF<br>OFF                                                 | ON<br>ON<br>ON*<br>ON*<br>ON*                                                                 | D                          | 11.89 (.468)<br>11.89 (.468)<br>11.89 (.468)<br>11.89 (.468)<br>11.89 (.468) | 17.45 (.688)<br>17.45 (.688)<br>17.45 (.688)<br>17.45 (.688)<br>17.45 (.688) | ST-52P<br>ST-52N<br>ST-52R<br>ST-52S<br>ST-52T | 7311K38<br>7312K38<br>7317K38<br>7316K38<br>7315K38               | ST-50P<br>ST-50N<br>ST-50R<br>ST-50S<br>ST-50T | 7311K36<br>7312K36<br>7317K36<br>7316K36<br>7315K36        |

\* Momentary Contact.

### CURRENT RATINGS

| Code From Selection Table | Type of Operation    | CURRENT CAPACITY IN AMPERES PER POLE |                |                |                |                |             |                |                |             |
|---------------------------|----------------------|--------------------------------------|----------------|----------------|----------------|----------------|-------------|----------------|----------------|-------------|
|                           |                      | 30V dc                               |                |                | 125V ac, 60 Hz |                |             | 250V ac, 60 Hz |                |             |
|                           |                      | Lamp Load                            | Resistive Load | Inductive Load | Resistive Load | Inductive Load | Horse Power | Resistive Load | Inductive Load | Horse Power |
| ONE POLE                  |                      |                                      | ONE POLE       |                |                |                |             |                |                |             |
| 1                         | Maintained Momentary | 5                                    | 20             | 15             | 15             | —              | —           | 6              | —              | —           |
| 2                         |                      | 4                                    | 15             | 10             | 15             | —              | —           | 6              | —              | —           |
| TWO POLE                  |                      |                                      | TWO POLE       |                |                |                |             |                |                |             |
| 3                         | Maintained Momentary | 7                                    | 30             | 15             | 25             | —              | —           | 9              | —              | —           |
| 4                         |                      | 5                                    | 20             | 10             | 15             | —              | —           | 6              | —              | —           |

### DIMENSIONS APPROXIMATE IN MM (INCHES)

| 1PDT MAINTAINED ACTION | 2PDT MAINTAINED ACTION | 2PDT MOMENTARY ACTION |
|------------------------|------------------------|-----------------------|
|                        |                        |                       |