

## GENERAL SPECIFICATIONS FOR S800s ~ S732

### Electrical Capacity (Resistive & Inductive Load)

**Power Level:** Shown in the following tables

### Other Ratings

|                               |                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Contact Resistance:</b>    | 10 milliohms maximum                                                                                         |
| <b>Insulation Resistance:</b> | 1,000 megohms minimum @ 500V DC                                                                              |
| <b>Dielectric Strength:</b>   | 2,000V AC minimum for 1 minute minimum for S800s & S800Ds<br>3,000V AC minimum for 1 minute minimum for S732 |
| <b>Mechanical Life:</b>       | 50,000 operations minimum                                                                                    |
| <b>Electrical Life:</b>       | 10,000 operations minimum for S800Ds<br>25,000 operations minimum for S800s & S732                           |

### Materials & Finishes

|                                           |                                                                                    |
|-------------------------------------------|------------------------------------------------------------------------------------|
| <b>Toggle:</b>                            | Brass with nickel plating for S732<br>Brass with chrome plating for S800s & S800Ds |
| <b>Bushing:</b>                           | Brass with chrome plating                                                          |
| <b>Case:</b>                              | Phenolic resin for S732; melamine phenol for S800s                                 |
| <b>Case Cover:</b>                        | Steel with chromate plating over zinc plating                                      |
| <b>Movable Contactor Plate:</b>           | Copper with silver plating                                                         |
| <b>Movable &amp; Stationary Contacts:</b> | Silver alloy capped on copper with silver plating                                  |
| <b>Common Terminals:</b>                  | Brass                                                                              |
| <b>Contact Terminals:</b>                 | Brass with silver or nickel plating                                                |

### Environmental Data

**Operating Temp Range:** -10°C through +70°C (+14°F through +158°F)

### Installation

|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| <b>Mounting Torque:</b>         | 2.94Nm (26 lb•in) for double nut                        |
| <b>Maximum Panel Thickness:</b> | Shown beneath panel cutout in switch dimension drawings |

### Standards & Certifications

|             |                                                                                                                                                                                                                                                                                                      |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UL:</b>  | <b>File No. E44145 - Recognized only when ordered with marking on switch.</b><br>Add "/U" or "/CUL" to end of part number to order UL recognized switch.<br>UL or cULus recognition designated beside part numbers on following pages.<br>See Supplement section to find UL or cULus rating details. |
| <b>CSA:</b> | <b>File No. 023535_0_000 - Certified only when ordered with marking on switch.</b><br>Add "/C" to end of part number to order CSA certified switch.<br>CSA certification designated beside part numbers on following pages.<br>See Supplement section to find CSA rating details.                    |

A  
Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

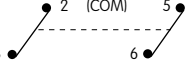
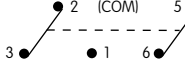
Touch

Indicators

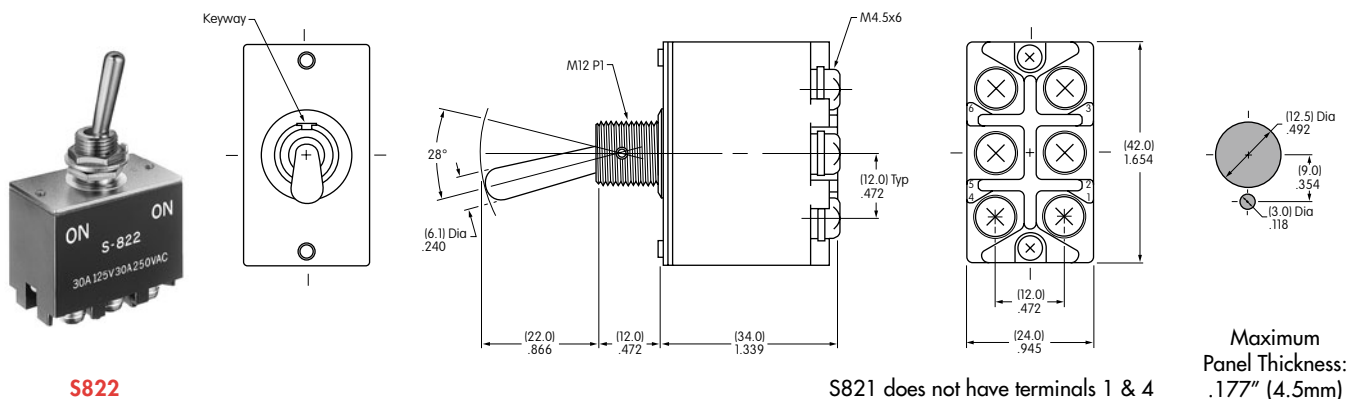
Accessories

Supplement

### DOUBLE POLE WITH SCREW LUG

| * UL, cULus & CSA recognized only when ordered with marking on switch (see General Specs) |                                                                                   |                                                                                   |                                                                                   | Toggle Position/Connected Terminals |                                                                                   |                                                                                   |                                                                                   | Electrical Capacity |                                                                                    |        |         |                                          |                |            |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------|--------|---------|------------------------------------------|----------------|------------|
| Model                                                                                     | * Approvals                                                                       |                                                                                   |                                                                                   | Pole & Throw                        | Down                                                                              | Center                                                                            | Up                                                                                | Resistive           |                                                                                    |        |         | Inductive                                |                | Motor Load |
|                                                                                           |  |  |  |                                     |  |  |  | AC 125V             | AC 250V                                                                            | DC 30V | DC 125V | AC 125V PF 0.6                           | AC 250V PF 0.6 | AC 125V    |
| S821                                                                                      | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 | DPST                                | ON 2-3 5-6                                                                        | NONE                                                                              | OFF —                                                                             | 30A                 | 30A                                                                                | 30A    | 1A      | 30A                                      | 15A            | 750W       |
| S822                                                                                      | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 | DPDT                                | ON 2-3 5-6                                                                        | NONE                                                                              | ON 2-1 5-4                                                                        | 30A                 | 30A                                                                                | 30A    | 1A      | 30A                                      | 15A            | —          |
| S823                                                                                      | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 | DPDT                                | ON 2-3 5-6                                                                        | OFF                                                                               | ON 2-1 5-4                                                                        | 30A                 | 30A                                                                                | 30A    | 1A      | 30A                                      | 15A            | —          |
| Throw & Schematics:                                                                       |                                                                                   |                                                                                   |                                                                                   | DPST                                |  |                                                                                   |                                                                                   | DPDT                |  |        |         | Note: Terminal numbers are on the switch |                |            |

**Notes:** Standard Hardware: AT503M Face Hex Nut, AT506M Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section. Optional Splashproof Boot Assembly: AT401 boot plus hex nut & o-ring. See Accessories & Hardware section.

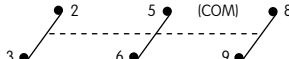


S822

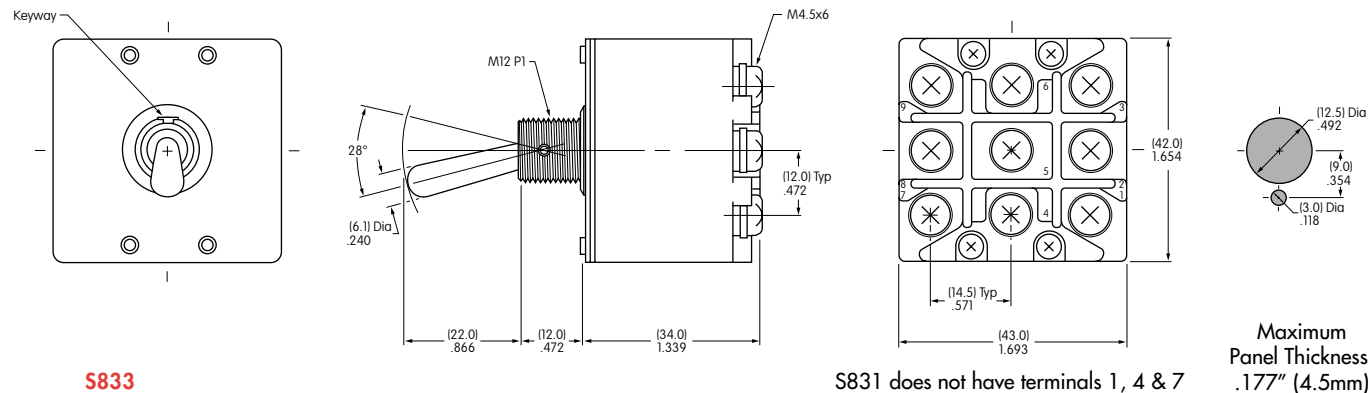
S821 does not have terminals 1 & 4

Maximum Panel Thickness: .177" (4.5mm)

### THREE POLE WITH SCREW LUG

| * UL, cULus & CSA recognized only when ordered with marking on switch (see General Specs) |                                                                                     |                                                                                     |                                                                                     | Toggle Position/Connected Terminals |                                                                                             |         |        |                                                                                               | Electrical Capacity                                                                       |                                                                                      |                |                |           |                                          |    |     |     |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------|----------------|-----------|------------------------------------------|----|-----|-----|
| Model                                                                                     | * Approvals                                                                         |                                                                                     |                                                                                     | Pole & Throw                        | Down<br> |         |        | Center<br> | Up<br> | Resistive                                                                            |                |                | Inductive |                                          |    |     |     |
|                                                                                           |  |  |  |                                     | AC 125V                                                                                     | AC 250V | DC 30V |                                                                                               |                                                                                           | DC 125V                                                                              | AC 125V PF 0.6 | AC 250V PF 0.6 |           |                                          |    |     |     |
| S831                                                                                      | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | 3PST                                | ON                                                                                          | 2-3     | 5-6    | 8-9                                                                                           | NONE                                                                                      | OFF                                                                                  | —              | 30A            | 30A       | 30A                                      | 1A | 30A | 15A |
| S832                                                                                      | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | 3PDT                                | ON                                                                                          | 2-3     | 5-6    | 8-9                                                                                           | NONE                                                                                      | ON                                                                                   | 2-1 5-4 8-7    | 30A            | 30A       | 30A                                      | 1A | 30A | 15A |
| S833                                                                                      | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | 3PDT                                | ON                                                                                          | 2-3     | 5-6    | 8-9                                                                                           | OFF                                                                                       | ON                                                                                   | 2-1 5-4 8-7    | 30A            | 30A       | 30A                                      | 1A | 30A | 15A |
| Throw & Schematics:                                                                       |                                                                                     |                                                                                     |                                                                                     | 3PST                                |          |         |        |                                                                                               | 3PDT                                                                                      |  |                |                |           | Note: Terminal numbers are on the switch |    |     |     |

**Notes:** Standard Hardware: AT503M Face Hex Nut, AT506M Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section. Optional Splashproof Boot Assembly: AT401 boot plus hex nut & o-ring. See Accessories & Hardware section.



S833

S831 does not have terminals 1, 4 & 7

Maximum Panel Thickness: .177" (4.5mm)

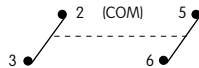
## DOUBLE POLE WITH SCREW LUG & FLATTED LEVER

| * UL, cULus & CSA recognized only<br>when ordered with marking on<br>switch (see General Specs) |                                                                                   |                                                                                   |                                                                                   | Toggle Position/Connected Terminals |                                                                                   |                                                                                   |                                                                                   |        | Electrical Capacity |           |         |         |        |        |                     |         |     |     |    |    |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|---------------------|-----------|---------|---------|--------|--------|---------------------|---------|-----|-----|----|----|
| Model                                                                                           | * Approvals                                                                       |                                                                                   |                                                                                   | Pole & Throw                        | Down                                                                              |                                                                                   | Center                                                                            | Up     |                     | Resistive |         |         |        |        | Inductive L/R = 3ms |         |     |     |    |    |
|                                                                                                 |  |  |  |                                     |  |  |  | DC 30V | DC 48V              | DC 125V   | DC 250V | DC 400V | DC 24V | DC 48V | DC 125V             | DC 250V |     |     |    |    |
| S821D                                                                                           | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 | DPST                                | ON                                                                                | 2-3                                                                               | 5-6                                                                               | NONE   | OFF                 | —         | 30A     | 30A     | 20A    | 15A    | 4A (10A)            | 15A     | 10A | 6A  | 3A |    |
| S822D                                                                                           | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 | DPDT                                | ON                                                                                | 2-3                                                                               | 5-6                                                                               | NONE   | ON                  | 2-1       | 5-4     | 30A     | 30A    | 20A    | 15A                 | 4A      | 15A | 10A | 6A | 3A |
| S823D                                                                                           | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 | DPDT                                | ON                                                                                | 2-3                                                                               | 5-6                                                                               | OFF    | ON                  | 2-1       | 5-4     | 30A     | 30A    | 15A    | 7.5A                | —       | 15A | 10A | 6A | 3A |

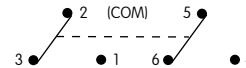
( ) capacity is due to wiring. Refer to instructions below.

Throw & Schematics:

DPST

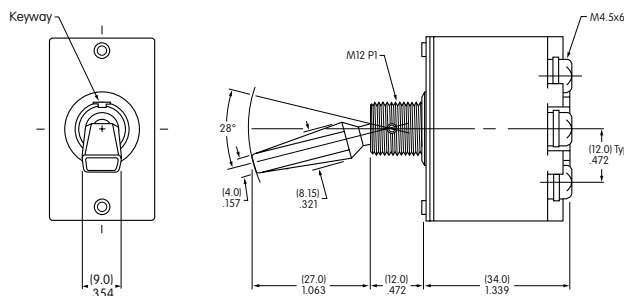


DPDT

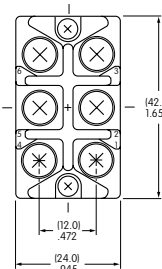


Note: Terminal numbers are on the switch

Notes: Standard Hardware: AT503M Face Hex Nut, AT506M Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.



### Double Pole



S821D does not have terminals 1 & 4

Maximum Panel Thickness: .177" (4.5mm)



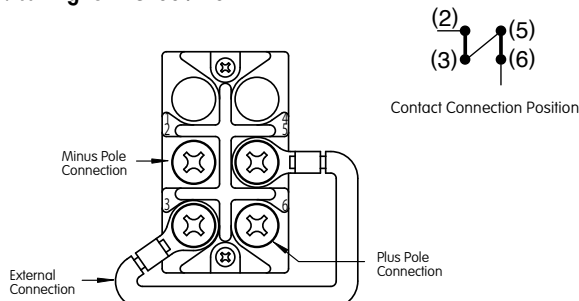
S822D

## 400V DC WIRING INSTRUCTIONS

### 1. DC switch use

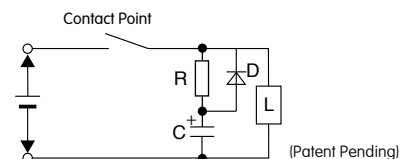
- Middle terminal shall be the minus pole when using DC circuit. Switch case is marked with (+) and (-).
- Do not store near (5cm) highly magnetic items.
- If actuation is interrupted when switching from ON to OFF, arcing may continue and switch could be burned.

### 2. Wiring for DC400V 10A



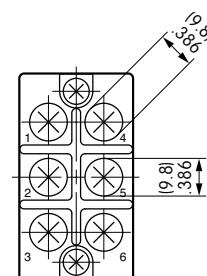
### 3. Inductive load

Inductive loads produce an arc caused by counter-electromotive force when opening the circuit. Recommend inserting spark elimination circuit. Contact factory for details.



### 4. Compressed terminal connection

When connecting screw terminal with compressed terminal, select compressed terminal using drawing below.

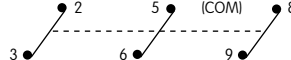


### THREE POLE WITH SCREW LUG & FLATTED LEVER

| * UL, cULus & CSA recognized only when ordered with marking on switch (see General Specs) |                                                                                   |                                                                                   |                                                                                   | Toggle Position/Connected Terminals |                                                                                   |                                                                                   |                                                                                   | Electrical Capacity |        |         |         |                     |        |         |         |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------|--------|---------|---------|---------------------|--------|---------|---------|
| Model                                                                                     | * Approvals                                                                       |                                                                                   |                                                                                   | Pole & Throw                        | Down                                                                              | Center                                                                            | Up                                                                                | Resistive           |        |         |         | Inductive L/R = 3ms |        |         |         |
|                                                                                           |  |  |  |                                     |  |  |  | DC 30V              | DC 48V | DC 125V | DC 250V | DC 24V              | DC 48V | DC 125V | DC 250V |
| S831D                                                                                     | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 | 3PST                                | ON 2-3 5-6 8-9                                                                    | NONE                                                                              | OFF —                                                                             | 30A                 | 30A    | 15A     | 7.5A    | 15A                 | 10A    | 6A      | 3A      |
| S832D                                                                                     | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 | 3PDT                                | ON 2-3 5-6 8-9                                                                    | NONE                                                                              | ON 2-1 5-4 8-7                                                                    | 30A                 | 30A    | 15A     | 7.5A    | 15A                 | 10A    | 6A      | 3A      |
| S833D                                                                                     | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 | 3PDT                                | ON 2-3 5-6 8-9                                                                    | OFF                                                                               | ON 2-1 5-4 8-7                                                                    | 30A                 | 30A    | 15A     | 7.5A    | 15A                 | 10A    | 6A      | 3A      |

Throw & Schematics:

3PST

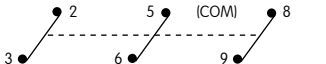
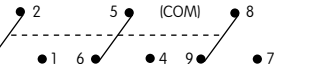


3PDT



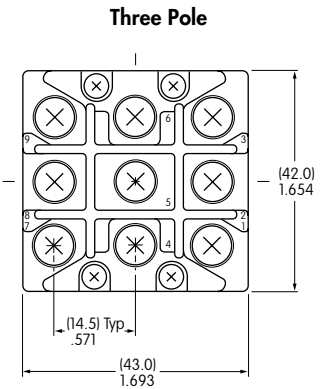
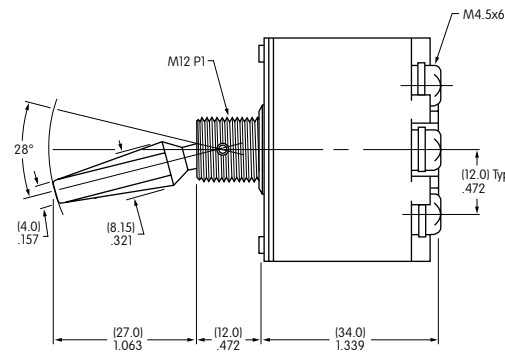
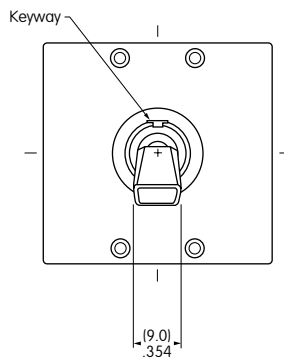
Note: Terminal numbers are on the switch

**Throw & Schematics:**

3PST:  3PDT: 

Note: Terminal numbers are on the switch

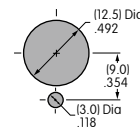
**Notes:** Standard Hardware: AT503M Face Hex Nut, AT506M Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.



S831D does not have terminals 1, 4 & 7.  
Positive (+) must be connected to end terminals  
& negative to common terminals

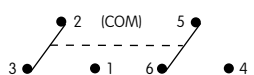


**S832D**

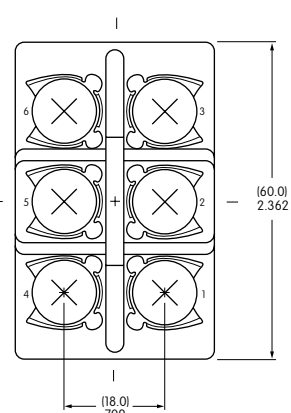
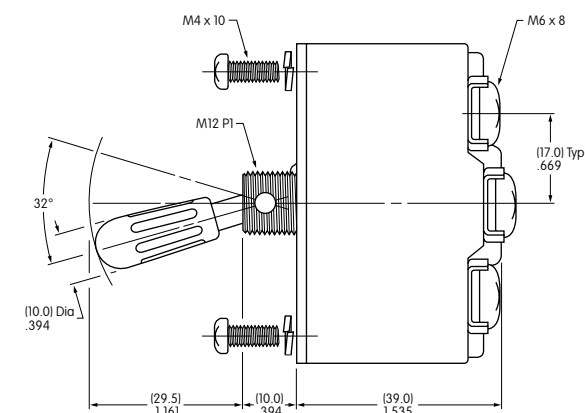
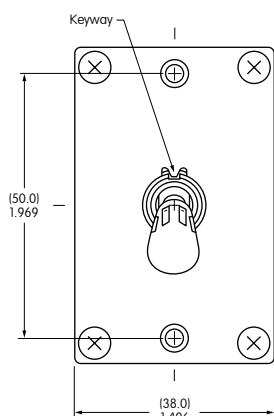


Maximum  
Panel Thickness:  
.177" (4.5mm)

## DOUBLE POLE WITH SCREW LUG

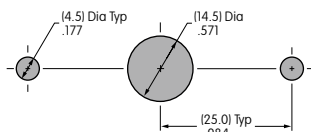
| Model                          | Approvals<br>  | Pole & Throw | Toggle Position/Connected Terminals                                                       |                                                                                             |                                                                                         | Electrical Capacity                      |         |        |                |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------|---------|--------|----------------|
|                                |                                                                                                                                                                                  |              | Down<br> | Center<br> | Up<br> | Resistive                                |         |        | Inductive      |
|                                |                                                                                                                                                                                  |              | ON 2-3 5-6                                                                                | NONE                                                                                        | ON 2-1 5-4                                                                              | AC 125V                                  | AC 250V | DC 30V | AC 125V PF 0.6 |
| <b>S732</b>                    | — —                                                                                                                                                                              | DPDT         | ON 2-3 5-6                                                                                | NONE                                                                                        | ON 2-1 5-4                                                                              | 50A                                      | 30A     | 50A    | 25A            |
| <b>Throw &amp; Schematics:</b> |                                                                                                                                                                                  |              |          |                                                                                             |                                                                                         | Note: Terminal numbers are on the switch |         |        |                |

**Notes:** Standard Hardware: AT503M Face Hex Nut, AT506M Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.



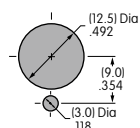
Cap of phenolic resin is black

### Panel Mount with Mounting Screws

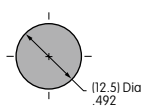


Maximum  
Panel Thickness:  
.158" (4.0mm)

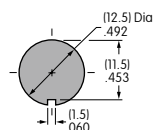
### Panel Mount with Bushing Hardware



Maximum  
Panel Thickness:  
.079" (2.0mm)



Maximum  
Panel Thickness:  
.118" (3.0mm)



Maximum  
Panel Thickness:  
.118" (3.0mm)



**S732**



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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