

## 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 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 25,000 operations minimum for S800s & S732

### Materials & Finishes

<b>Toggle:</b>	Brass with nickel plating for S732 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

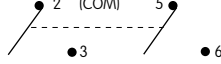
### Standards & Certifications

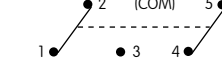
<b>UL Recognized:</b>	Designated with UL recognized symbol beside part numbers on following pages See Supplement section to find UL rating details. UL File No. WOYR2.E44145 Add "/U" to end of part number to order UL mark on switch.
<b>C-UL Recognized:</b>	Designated with C-UL recognized symbol beside part numbers on following pages See Supplement section to find C-UL rating details. C-UL File No. WOYR8.E44145 Add "/C-UL" to end of part number to order C-UL mark on switch.
<b>CSA Certified:</b>	Designated with CSA certified symbol beside part numbers on following pages See Supplement section to find CSA rating details. File No. 023535-0-000 Add "/C" to end of part number to order CSA mark on switch.

## DOUBLE POLE WITH SCREW LUG

Model	Approvals	Pole & Throw	Toggle Position/Connected Terminals						Electrical Capacity					
			Down 	Center 	Up 	Keyway			Resistive				Inductive	
									AC 125V	AC 250V	DC 30V	DC 125V	AC 125V PF 0.6	AC 250V PF 0.6
S821	  	DPST	ON 2-3 5-6	NONE	OFF —				30A	30A	30A	1A	30A	15A
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

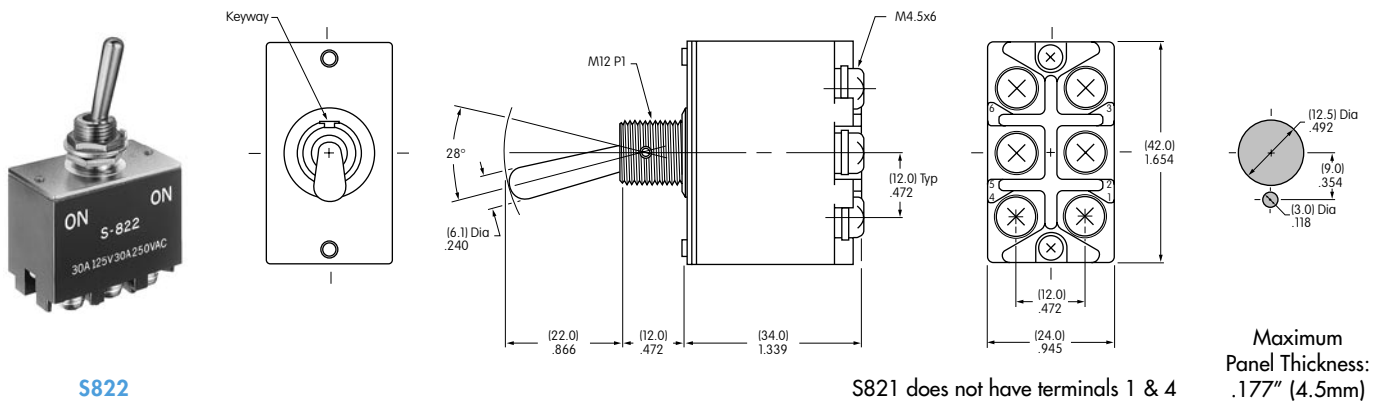
**Throw & Schematics:**

DPST: 
















DPDT: 

Note: Terminal numbers are on the switch

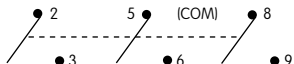
• Standard Hardware: AT503M Face Hex Nut, AT506 Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.

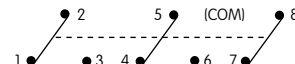


## THREE POLE WITH SCREW LUG

Model	Approvals	Pole & Throw	Toggle Position/Connected Terminals						Electrical Capacity					
			Down 	Center 	Up 	Keyway			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

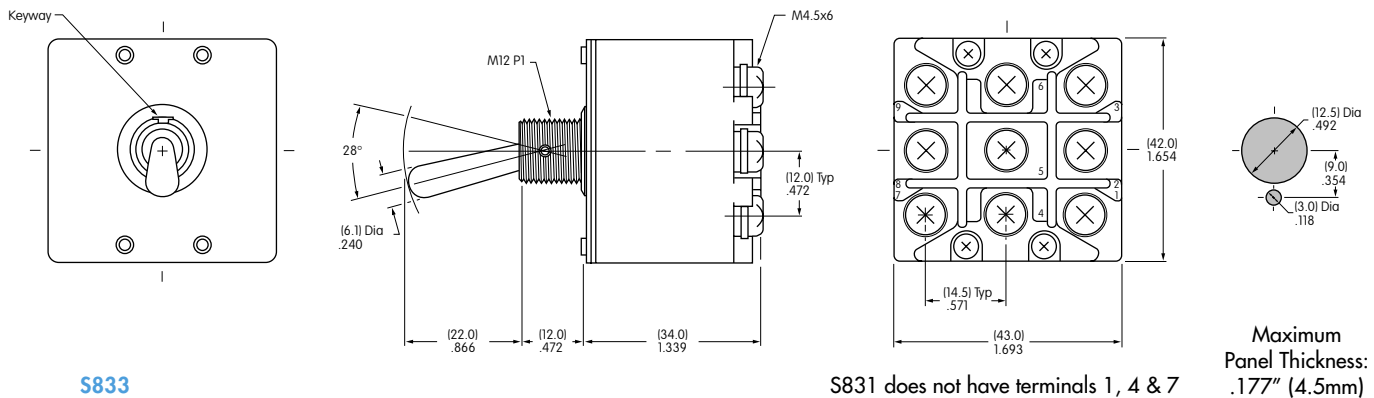
**Throw & Schematics:**

3PST: 













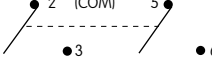
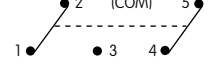









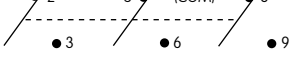
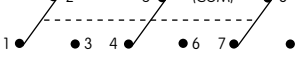
3PDT: 

Note: Terminal numbers are on the switch

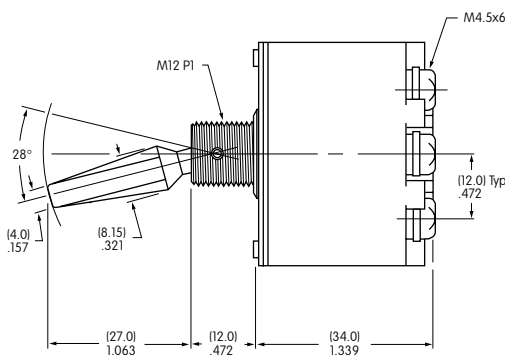
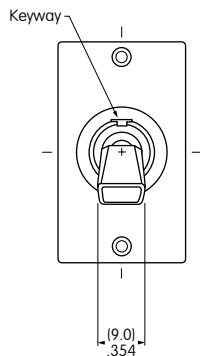
• Standard Hardware: AT503M Face Hex Nut, AT506 Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.



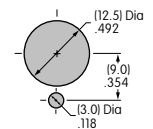
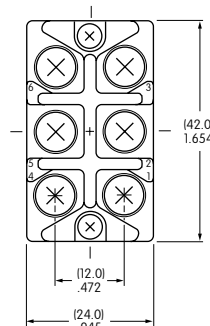
### DOUBLE & THREE POLE WITH SCREW LUG & FLATTED LEVER

			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			
S821D	  	DPST	ON	2-3 5-6	NONE	OFF	—	30A	30A	15A	7.5A	15A	10A	6A	3A			
S822D	  	DPDT	ON	2-3 5-6	NONE	ON	2-1 5-4	30A	30A	15A	7.5A	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			
Throw & Schematics:			DPST 						DPDT 						Note: Terminal numbers are on the switch			
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			

- Standard Hardware: AT503M Face Hex Nut, AT506 Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.



Double Pole

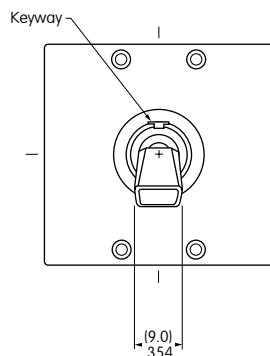


S821D does not have terminals 1 & 4

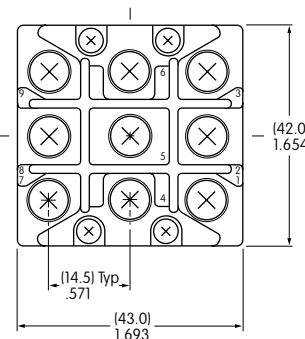
Maximum Panel Thickness: .177" (4.5mm)



S832D






Three Pole



S831D does not have terminals 1, 4 & 7

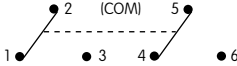
Positive (+) must be connected to end terminals & negative to common terminals

### DOUBLE POLE WITH SCREW LUG

Model	Approvals	Pole & Throw	Toggle Position/Connected Terminals				Electrical Capacity			
			Down	Center	Up		Resistive			Inductive
			 ON 2-3 5-6	 NONE	 ON 2-1 5-4		AC 125V	AC 250V	DC 30V	AC 125V PF 0.6
S732	— —	DPDT					50A	30A	50A	25A

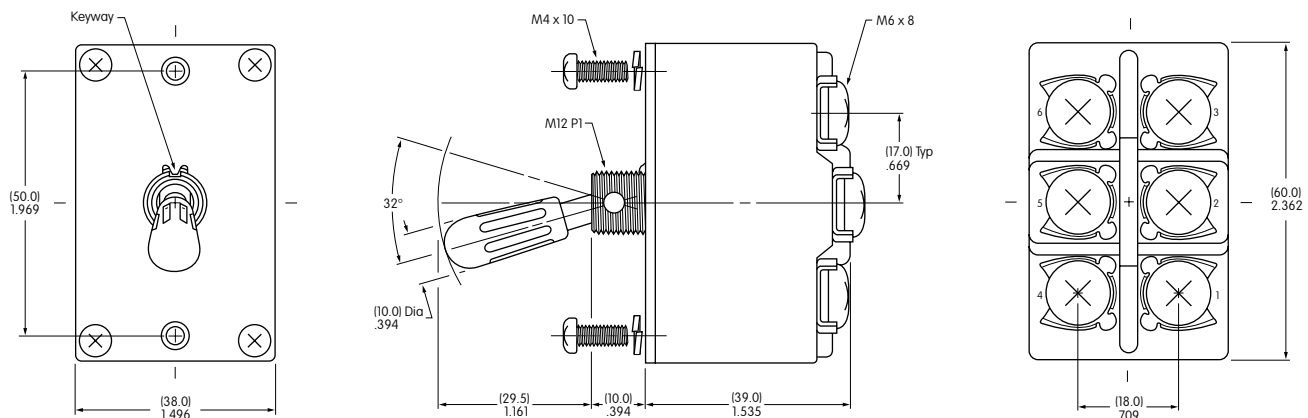
**Throw & Schematics:**

DPDT



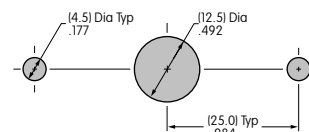
Note: Terminal numbers are on the switch

- Standard Hardware: AT503M Face Hex Nut, AT506 Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.



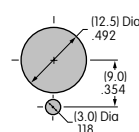
Cap of phenolic resin is black

#### Panel Mount with Mounting Screws

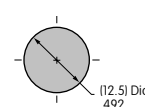


Maximum  
Panel Thickness:  
.158" (4.0mm)

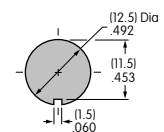
#### Panel Mount with Bushing Hardware



Maximum  
Panel Thickness:  
.079" (2.0mm)



Maximum  
Panel Thickness:  
.118" (3.0mm)



Maximum  
Panel Thickness:  
.118" (3.0mm)



S732