

GENERAL SPECIFICATIONS FOR S800s ~ S732

Electrical Capacity (Resistive & Inductive Load)

Power Level: Shown in the following tables

Other Ratings

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

Materials & Finishes

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

Environmental Data

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

Installation

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

Standards & Certifications

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

A
Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

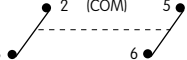
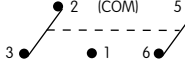
Touch

Indicators

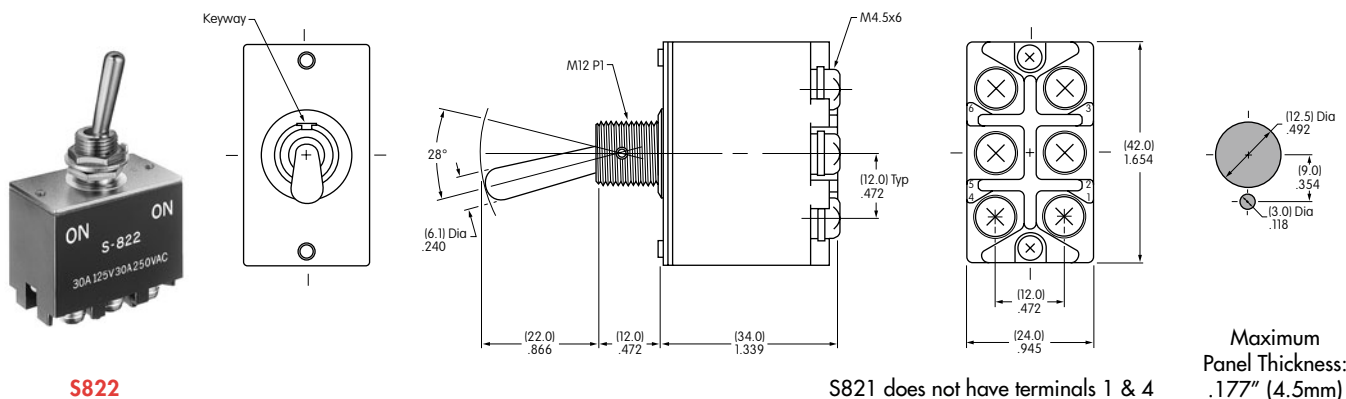
Accessories

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		

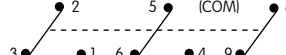
Notes: Standard Hardware: AT503M Face Hex Nut, AT506M Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section. Optional Splashproof Boot Assembly: AT401 boot plus hex nut & o-ring. See Accessories & Hardware section.



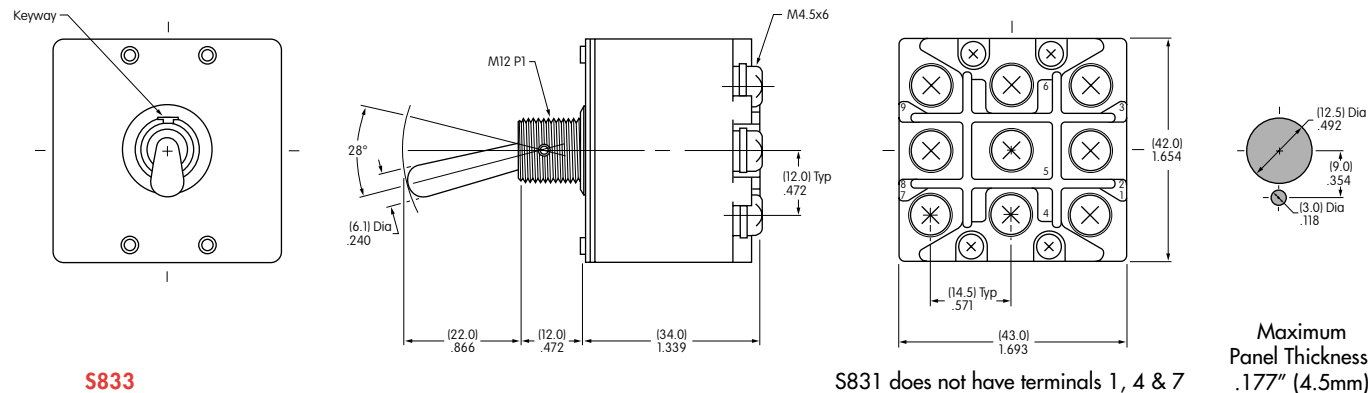
S822

S821 does not have terminals 1 & 4

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 			Center 	Up 			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

A Toggles

Electrical Capacity

Rockers

Buttons

ed PB

ammable

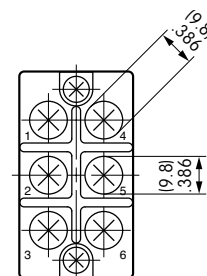


Keylocks

Rotaries

- Slides

Tactiles



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

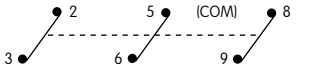
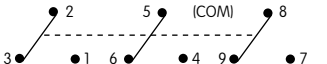


3PDT



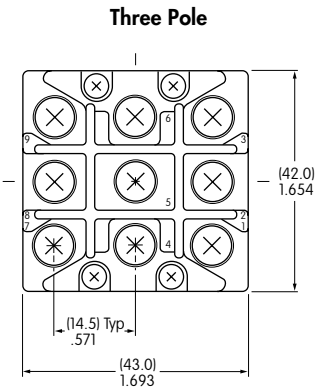
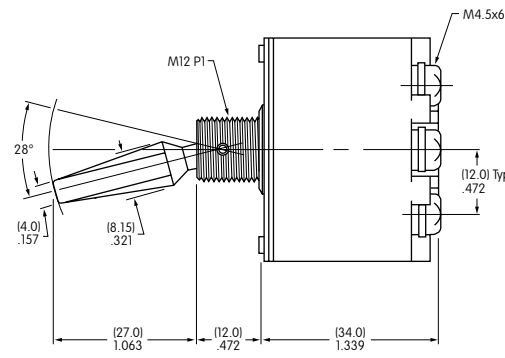
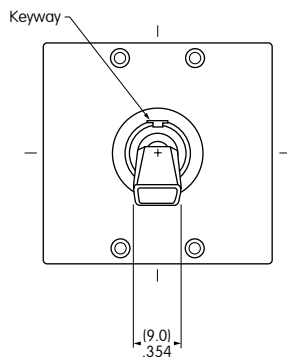
Note: Terminal numbers are on the switch

Throw & Schematics:

3PST:  3PDT: 

Note: Terminal numbers are on the switch

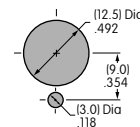
Notes: Standard Hardware: AT503M Face Hex Nut, AT506M Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.



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

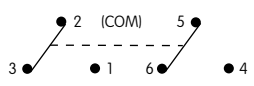


S832D

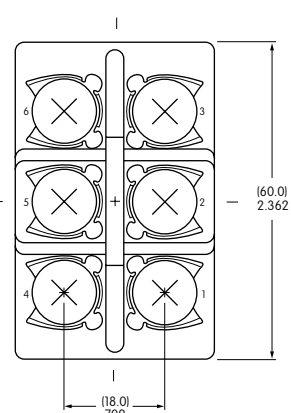
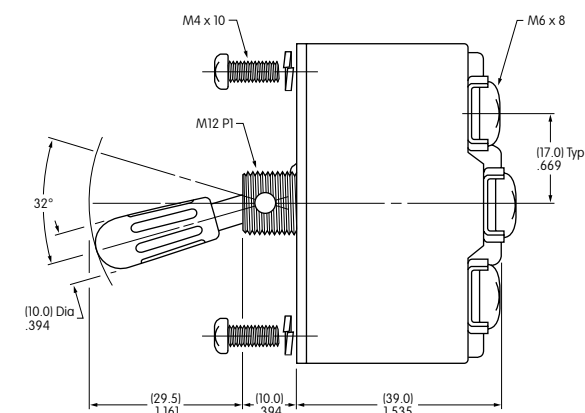
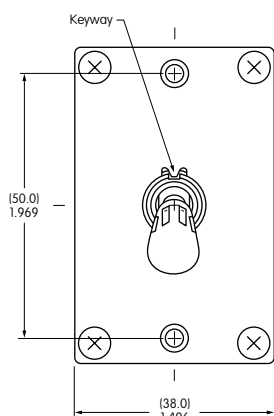


Maximum
Panel Thickness:
.177" (4.5mm)

DOUBLE POLE WITH SCREW LUG

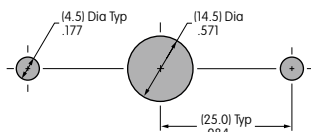
Model	Approvals  	Pole & Throw	Toggle Position/Connected Terminals			Electrical Capacity			
			Down 	Center 	Up 	Resistive			Inductive
			Keyway 			AC 125V	AC 250V	DC 30V	AC 125V PF 0.6
S732	— —	DPDT	ON 2-3 5-6	NONE	ON 2-1 5-4	50A	30A	50A	25A
Throw & Schematics:			DPDT 			Note: Terminal numbers are on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

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



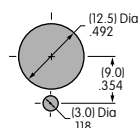
Cap of phenolic resin is black

Panel Mount with Mounting Screws

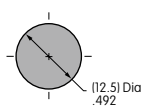


Maximum
Panel Thickness:
.158" (4.0mm)

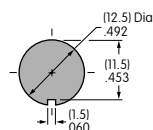
Panel Mount with Bushing Hardware



Maximum
Panel Thickness:
.079" (2.0mm)



Maximum
Panel Thickness:
.118" (3.0mm)



Maximum
Panel Thickness:
.118" (3.0mm)



S732

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

NKK Switches:

[S821-RO](#) [S822-RO](#) [S833-RO](#) [S821/U-RO](#) [S822/U-RO](#) [S833/U-RO](#) [S832/C-RO](#) [S823/328-RO](#) [S833D-RO](#) [S823-RO](#) [S832D-RO](#) [S831D-RO](#) [S831-RO](#) [S823D-RO](#) [S822D/C-RO](#)