

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 Recognized:	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.
C-UL Recognized:	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.
CSA Certified:	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.

			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	—

Note: Terminal numbers
are on the switch

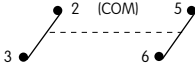
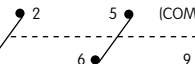
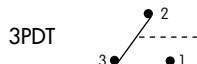
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- Technical drawing of the S821 indicator light assembly. The drawing includes a perspective view of the component, a front view, a side view, and a detail view of the lens. The front view shows a circular lens with a keyway and a central indicator. The side view shows the lens, the indicator, and the mounting bracket. The detail view shows the lens with dimensions for the indicator and the mounting bracket. The drawing is labeled with dimensions in inches and millimeters.
- Keyway
- M12 P1
- M4.5x6
- 28°
- (6.1) Dia
.240
- (12.0) Typ
.472
- (22.0)
.866
- (12.0)
.472
- (34.0)
1.339
- (12.0)
.472
- (24.0)
.945
- (12.0)
.472
- (12.5) Dia
.492
- (9.0)
.354
- (3.0) Dia
.118
- (42.0)
1.654
- ON S-822 30A 125V 30A 250VAC
- S821 does not have terminals 1 & 4
- Maximum Panel Thickness: .177" (4.5mm)

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

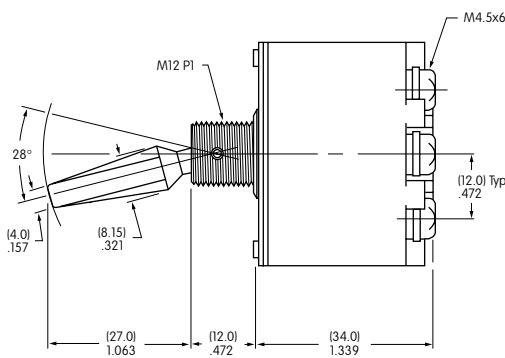
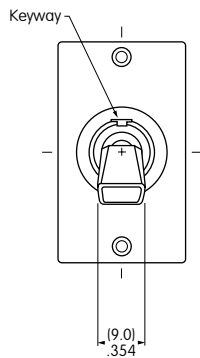
Note: Terminal numbers are on the switch

-
- Keyway
- 28°
- (6.1) Dia .240
- M12 P1
- (22.0) .866
- (12.0) .472
- (34.0) 1.339
- M4.5x6
- (12.0) Typ .472
- (14.5) Typ .571
- (43.0) 1.693
- (42.0) 1.654
- (12.5) Dia .492
- (19.0) .754
- (3.0) Dia .118
- Maximum Panel Thickness: .177" (4.5mm)
- S831 does not have terminals 1, 4 & 7

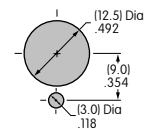
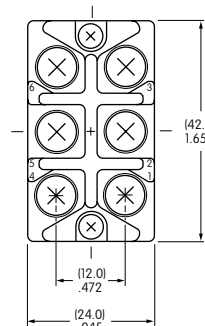
DOUBLE & THREE POLE WITH SCREW LUG & FLATTED LEVER

			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

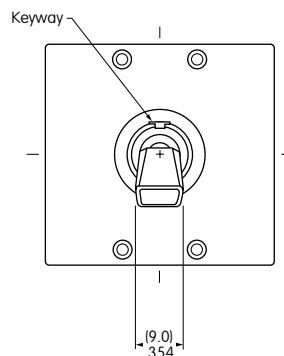


S821D does not have terminals 1 & 4

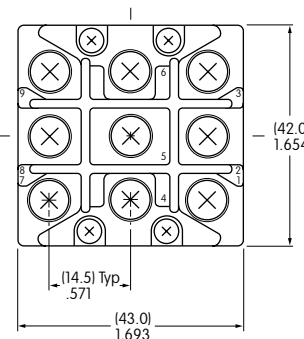
Maximum Panel Thickness: .177" (4.5mm)



S832D



Three Pole



S831D does not have terminals 1, 4 & 7

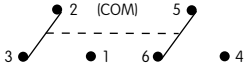
Positive (+) must be connected to end terminals & negative to common terminals

DOUBLE POLE WITH SCREW LUG

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

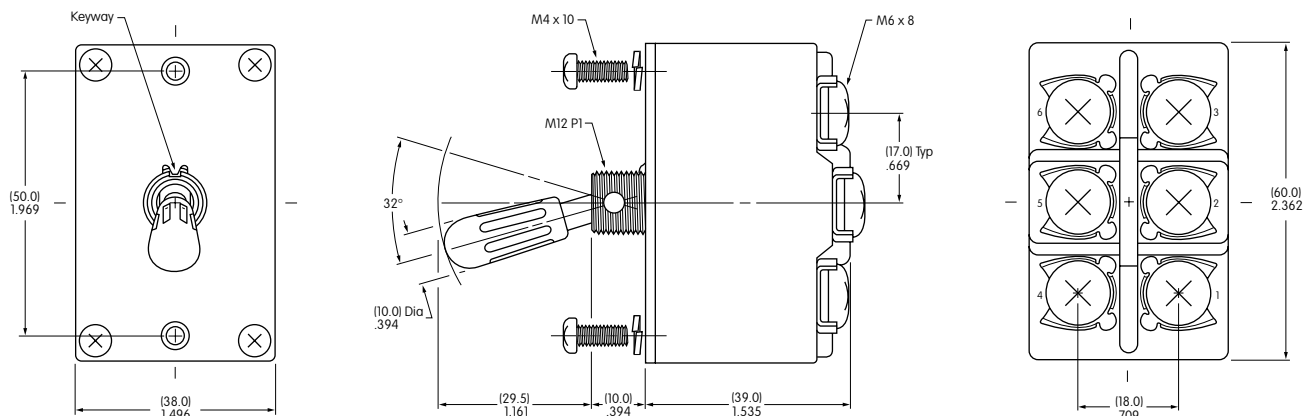
Throw & Schematics:

DPDT



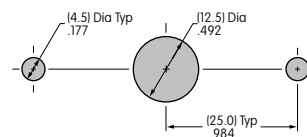
Note: Terminal numbers are on the switch

- 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

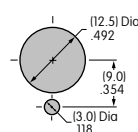


Maximum
Panel Thickness:
.158" (4.0mm)

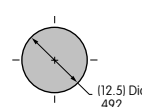


S732

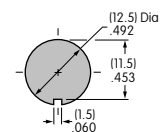
Panel Mount with Bushing Hardware



Maximum
Panel Thickness:
.079" (2.0mm)



Maximum
Panel Thickness:
.118" (3.0mm)



Maximum
Panel Thickness:
.118" (3.0mm)