

## PRODUCTS

### Series S

#### Low Capacity Toggles



- [Download Specifications](#)
- [Configure This Switch!](#)

#### Medium Capacity Toggles



- [Download Specifications](#)
- [Configure This Switch!](#)

#### Medium/High Capacity Toggles

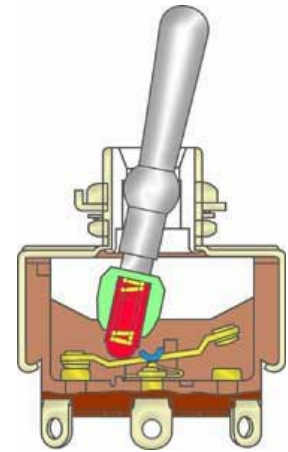


- [Download Specifications](#)
- [Configure This Switch!](#)

#### High Capacity Toggles



- [Download Specifications](#)
- [Configure This Switch!](#)



#### Standard Size Toggle Switches

These standard size toggles come in low, medium, and high capacity models with ratings ranging from 5A to 30A @ 125V AC. Sturdy construction with high torque bushings and zinc plated steel covers. The 12mm bushing is designed for panel mount applications; mounting hardware is included with each switch. 1 through 4 poles with 6 circuits available. Case of heat resistant resin meets UL 94V-0 flammability standard and provides high arc and insulation resistance. Varied design of contact mechanisms in these models assures long life. Solder lug, screw lug, and quick connect terminals are available.

## GENERAL SPECIFICATIONS FOR S301 ~ S339

### 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
<b>Mechanical Life:</b>	50,000 operations minimum
<b>Electrical Life:</b>	6,000 operations minimum for S331F; 15,000 operations minimum for all other S331s; 25,000 operations minimum for all others
<b>Angle of Throw (<math>\alpha</math>):</b>	Shown on following tables

### Materials & Finishes

<b>Toggle:</b>	PBT for flatted lever; brass with chrome plating for all others
<b>Bushing:</b>	Brass with chrome plating
<b>Case:</b>	Melamine phenol
<b>Case Cover:</b>	Steel with zinc plating
<b>Movable Contact:</b>	Copper with silver plating
<b>Movable &amp; Stationary Contacts:</b>	Silver alloy capped on copper with silver plating
<b>Terminals:</b>	Brass with silver plating










### Installation

<b>Mounting Torque:</b>	2.94Nm (26 lb•in) for double nut; 1.47Nm (13 lb•in) for single nut
<b>Soldering Time &amp; Temperature:</b>	Manual Soldering: See Profile A in Supplement section.

### Standards & Certifications

<b>UL Recognized:</b>	Designated with UL recognized symbol beside part numbers on following pages 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 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 File No. 023535-0-000. Add "/C" to end of part number to order CSA mark on switch.

## SINGLE POLE WITH SOLDER LUG

Model	Approvals	Pole & Throw	Toggle Position/Connected Terminals ( ) = Momentary						Electrical Capacity				Angle of Throw
			Down 	Center 	Up 	Resistive			Inductive				
						AC 125V	AC 250V	DC 30V	AC 125V PF 0.6				
S301		SPST	ON 1-3	NONE	OFF —	15A	6A	20A	10A	32°			
S302		SPDT	ON 2-3	NONE	ON 2-1	15A	6A	20A	10A	32°			
S303		SPDT	ON 2-3	OFF	ON 2-1	15A	6A	20A	10A	32°			
S305	— — 	SPDT	ON 2-3	NONE	(ON) 2-1	15A	6A	20A	8A	32°			
S308	— — 	SPDT	(ON) 2-3	OFF	(ON) 2-1	15A	6A	20A	8A	32°			
S309	— — 	SPDT	ON 2-3	OFF	(ON) 2-1	15A	6A	20A	8A	32°			

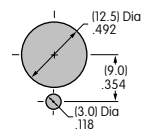
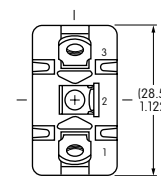
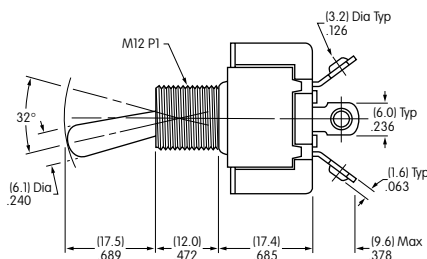
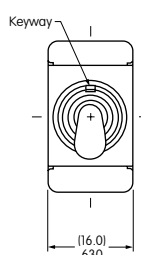
**Throw & Schematics:**

Note: Terminal numbers are actually on the switch

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


















S301



Maximum Panel Thickness: .185" (4.7mm)

S301 does not have terminal 2

### SINGLE POLE WITH SCREW LUG

Model	Approvals	Pole & Throw	Toggle Position/Connected Terminals ( ) = Momentary						Electrical Capacity				$\alpha$ = Angle of Throw
			Down 	Center 	Up 	Resistive			Inductive				
						AC 125V	AC 250V	DC 30V	AC 125V PF 0.6				
S301T	  	SPST	ON 1-3	NONE	OFF —	15A	6A	20A	10A	32°			
S302T	  	SPDT	ON 2-3	NONE	ON 2-1	15A	6A	20A	10A	32°			
S303T	  	SPDT	ON 2-3	OFF	ON 2-1	15A	6A	20A	10A	32°			
S305T	— — 	SPDT	ON 2-3	NONE	(ON) 2-1	15A	6A	20A	8A	32°			
S308T	— — 	SPDT	(ON) 2-3	OFF	(ON) 2-1	15A	6A	20A	8A	32°			
S309T	— — 	SPDT	ON 2-3	OFF	(ON) 2-1	15A	6A	20A	8A	32°			

#### Throw & Schematics:

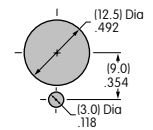
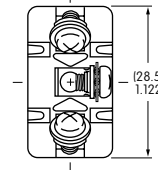
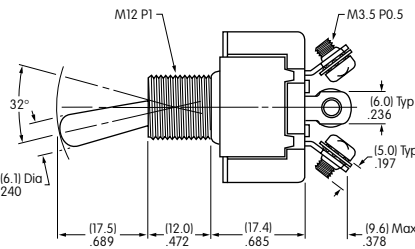
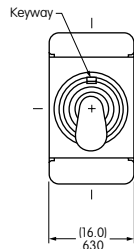


Note: Terminal numbers are actually on the switch

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


















S301T



Maximum Panel Thickness: .185" (4.7mm)

S301T does not have terminal 2

### DOUBLE POLE WITH SCREW LUG

Model	Approvals	Pole & Throw	Toggle Position/Connected Terminals ( ) = Momentary						Electrical Capacity				$\alpha$ = Angle of Throw
			Down 	Center 	Up 	Resistive			Inductive				
						AC 125V	AC 250V	DC 30V	AC 125V PF 0.6				
S331T	  —	DPST	ON 1-3 4-6	NONE	OFF —	15A	15A	15A	10A	25°			
S332T	  —	DPDT	ON 2-3 5-6	NONE	ON 2-1 5-4	15A	15A	15A	10A	25°			
S333T	  —	DPDT	ON 2-3 5-6	OFF	ON 2-1 5-4	15A	15A	15A	10A	30°			
S335T	  —	DPDT	ON 2-3 5-6	NONE	(ON) 2-1 5-4	15A	6A	20A	8A	25°			
S338T	  —	DPDT	(ON) 2-3 5-6	OFF	(ON) 2-1 5-4	15A	6A	20A	8A	25°			
S339T	  —	DPDT	ON 2-3 5-6	OFF	(ON) 2-1 5-4	15A	6A	20A	8A	25°			

#### Throw & Schematics:

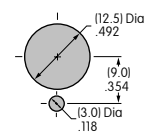
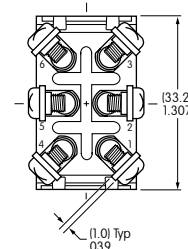
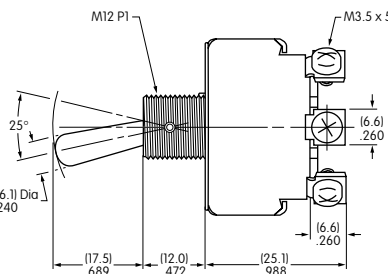
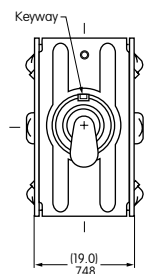


Note: Terminal numbers are actually on the switch

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



S331T



Maximum Panel Thickness: .185" (4.7mm)

S331T does not have terminals 2 & 5