

PRODUCTS

Series S

Low Capacity Toggles



- Download Specifications
- Configure This Switch!

Medium Capacity Toggles



- Download Specifications
- Configure This Switch!

Medium/High Capacity Toggles

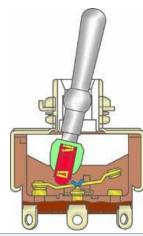


- Download Specifications
- Configure This Switch!

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 \$301 ~ \$339

Electrical Capacity (Resistive & Inductive Load)

Power Level: Shown in the following tables

Other Ratings

10 milliohms maximum Contact Resistance:

Insulation Resistance: 1,000 megohms minimum @ 500V DC **Dielectric Strength:** 2,000V AC minimum for 1 minute minimum

Mechanical Life: 50,000 operations minimum

Electrical Life: 6,000 operations minimum for S331F; 15,000 operations minimum for all other S331s;

25,000 operations minimum for all others

Angle of Throw (α): Shown on following tables

Materials & Finishes

PBT for flatted lever; brass with chrome plating for all others Toggle:

Brass with chrome plating **Bushing:** Case: Melamine phenol

Steel with zinc plating Case Cover: Copper with silver plating **Movable Contactor:**

Silver alloy capped on copper with silver plating **Movable & Stationary Contacts:**

Terminals: Brass with silver plating

Installation

2.94Nm (26 lb•in) for double nut; 1.47Nm (13 lb•in) for single nut **Mounting Torque:**

Soldering Time & Temperature: Manual Soldering: See Profile A in Supplement section.

Standards & Certifications

UL Recognized: 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.

Designated with C-UL recognized symbol beside part numbers on following pages C-UL Recognized:

C-UL File No. WOYR8.E44145. Add "/C-UL" to end of part number to order C-UL mark on switch.

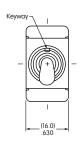
CSA Certified: Designated with CSA certified symbol beside part numbers on following pages

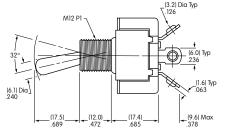
File No. 023535-0-000. Add "/C" to end of part number to order CSA mark on switch.

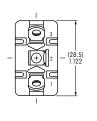
					S	INGL	E POLE	WITH	SOLE	PER LUC	,			
					Tog	gle Posit (ion/Connect) = Momento		nals					
				Down		Center Up			Resistive	Inductive				
Model	Approvals		Pole & Throw	Keyway¬		-	~		AC 125V	AC DC 250V 30V		AC 125V PF 0.6	Angle of Throw	
S301	<i>L</i> R。	<i>U</i> R _i	(IP	SPST	ON	1-3	NONE	OFF	_	15A	6A	20A	10A	32°
S302	<i>LR</i> 。	<i>.P</i> U	(1)	SPDT	ON	2-3	NONE	ON	2-1	15A	6A	20A	10A	32°
S303	<i>LR</i> 。	.PU	(1)	SPDT	ON	2-3	OFF	ON	2-1	15A	6A	20A	10A	32°
S305	_	_	48	SPDT	ON	2-3	NONE	(ON)	2-1	15A	6A	20A	8A	32°
S308	_	_	40	SPDT	(ON)	2-3	OFF	(ON)	2-1	15A	6A	20A	8A	32°
\$309	_	_	(1)	SPDT	ON	2-3	OFF	(ON)	2-1	15A	6A	20A	8A	32°
	Throw & Schematics:		SPST	1	INTERI CONN	NAL IECTION	SPD	T 3 •	9 2 (COM) • 1		^	re lh		

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











Maximum

Panel Thickness: .185" (4.7mm)

S301

S301 does not have terminal 2



Schematics:

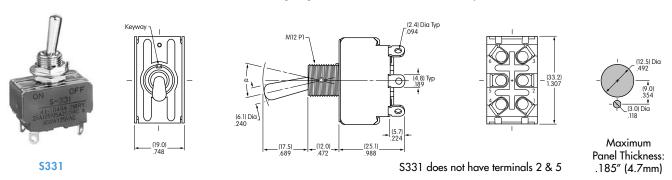
Medium/High Capacity Standard Size Toggles Series S

actually on the switch

DOUBLE POLE WITH SOLDER LUG

					Toggle Position/Connected Terminals () = Momentary					Electrical Capacity				
					Down Center Up Resistive						Inductive	o		
Model	Pole & Throw			Keyway-,		-	-		AC 125V	AC DC 250V 30V		AC 125V PF 0.6	α = Angle of Throw	
S331	<i>L</i> R。	<i>∟R</i> 。	40	DPST	ON	1-3 4-6	NONE	OFF	_	25A	25A	25A	10A	25°
S332	<i>L</i> R。	<i>.P</i> U	(1)	DPDT	ON	2-3 5-6	NONE	ON	2-1 5-4	25A	15A	25A	10A	25°
S333	<i>LR</i> 。	<i>.P</i> U	(\$P	DPDT	ON	2-3 5-6	OFF	ON	2-1 5-4	25A	15A	25A	10A	30°
S335	<i>L</i> R。	<i>.R</i> .,	(SP	DPDT	ON	2-3 5-6	NONE	(ON)	2-1 5-4	15A	6A	20A	8A	25°
S338	<i>LR</i> 。	<i>.P</i> U	_	DPDT	(ON)	2-3 5-6	OFF	(ON)	2-1 5-4	15A	6A	20A	8A	25°
S339	<i>LR</i> 。	<i>.R</i> .,	_	DPDT	ON	2-3 5-6	OFF	(ON)	2-1 5-4	1 <i>5</i> A	6A	20A	8A	25°
Throw &		DPST	•		!	— INTERNAL	DPDI	. 9	2 (COM) 5	•	N	lote: Termin	al numbers a	re

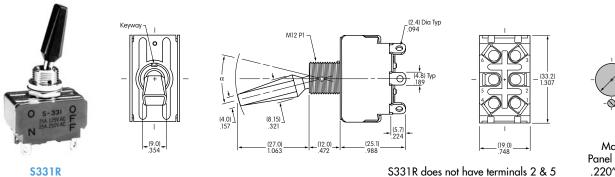
• Standard Hardware: AT503M Face Hex Nut, AT506 Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.



DOUBLE POLE WITH SOLDER LUG & FLATTED LEVER

					Toggle Position/Connected Terminals () = Momentary									
	Pole & Throw			Down		Center	Up		Resistive			Inductive		
Model				1	Keyway-		-	~		AC 125V	AC DC 250V 30V		AC 125V PF 0.6	α = Angle of Throw
S331R	<i>L</i> R。	<i>.</i> PU	_	DPST	ON	1-3 4-6	NONE	OFF	_	25A	25A	25A	10A	25°
S332R	<i>L</i> R。	<i>.</i> PU	_	DPDT	ON	2-3 5-6	NONE	ON	2-1 5-4	25A	15A	25A	10A	25°
S333R	<i>LR</i> .	<i>.P</i> U	_	DPDT	ON	2-3 5-6	OFF	ON	2-1 5-4	25A	15A	25A	10A	30°
S338R	<i>LR</i> 。	<i>.R</i> .,	_	DPDT	(ON)	2-3 5-6	OFF	(ON)	2-1 5-4	1 <i>5</i> A	6A	20A	8A	25°
S339R	<i>LR</i> 。	୍ୟ ମ	_	DPDT	ON	2-3 5-6	OFF	(ON)	2-1 5-4	1 <i>5</i> A	6A	20A	8A	25°
Throw 8		OPST	Å	3 4	• 6	INTERNAL CONNECTION DPDT 2 (COM) 5 O actually on the swit								

• Standard Hardware: AT504M Knurled Nut, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.



Maximum Panel Thickness: .220" (5.6mm)