

PRODUCTS

Series S

Low Capacity Toggles



- Download Specifications
- Configure This Switch!

Medium Capacity Toggles



- Download Specifications
- Configure This Switch!

Medium/High Capacity Toggles

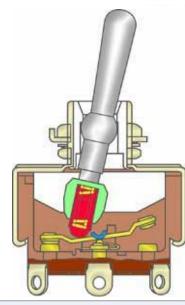


- Download Specifications
- Configure This Switch!

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 S1 ~ S29

Electrical Capacity (Resistive & Inductive Load)

Sealing:

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

Mechanical Life: 30,000 operations minimum for S5AW, S8AW, S9AW, S25AW, S28AW, S29AW

50,000 operations minimum for all other models

Electrical Life: 25,000 operations minimum Angle of Throw (α): Shown in tables on following pages

Materials & Finishes

Brass with chrome plating Toggle: **Bushing:** Brass with chrome plating

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

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

> Terminals: Brass with tin plating for S1 ~ S9AW; brass with silver plating for S21 ~ S29AW

Environmental Data

Operating Temp Range: -30°C through +70°C (-22°F through +158°F) for Splashproof models;

-10°C through +70°C (+14°F through +158°F) for all other models Splashproof & lever lock panel seal models meet IP67 standard

Installation

1.47Nm (13 lb•in) for single nut on AW & AL models **Mounting Torque:**

2.94Nm (26 lb•in) for double nut on other models

Maximum Panel Thickness: Shown beneath panel cutout in switch dimension drawings **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

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.

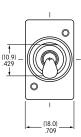


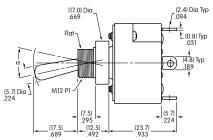
SINGLE POLE WITH PANEL SEAL

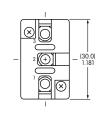
				To	oggle Po	osition/Connecte () = Momentar		ls					
	Approvals		Pole & Throw	Down		Center	Up			Resistive	Inductive	α =	
Model				Keywo	NY \	-	~		AC 125V	AC DC 250V 30V		AC 125V	Angle of Throw
\$1AW	_	_	SPST	ON	1-3	NONE	OFF	_	15A	6A	20A	200W	24°
S2AW	-	_	SPDT	ON	2-3	NONE	ON	2-1	15A	6A	20A	200W	24°
S3AW	-	_	SPDT	ON	2-3	OFF	ON	2-1	15A	6A	20A	200W	28°
S5AW	-	_	SPDT	ON	2-3	NONE	(ON)	2-1	15A	6A	20A	200W	20°
S8AW	-	_	SPDT	(ON)	2-3	OFF	(ON)	2-1	15A	6A	20A	200W	24°
S9AW	_	_	SPDT	ON	2-3	OFF	(ON)	2-1	15A	6A	20A	200W	24°
Throw & Schematics:		SPST INTERNAL CONNECTION SPDT						2 (CC	Note: Terminal numbers are actually on the switch				

- Standard Hardware: AT503M Face Hex Nut, AT508 Lockwasher, AT537 O-ring. See Accessories & Hardware section.
- Contact factory for availability of .250" (6.35mm) quick connect terminals.











S2AW \$1AW does not have terminal 2

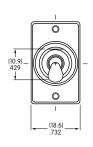
Maximum Panel Thickness: .158" (4.0mm)

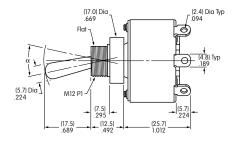
DOUBLE POLE WITH PANEL SEAL

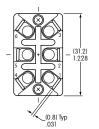
					Toggle Positi	on/Connect = Moment		nals	Electrical Capacity				α =
	Approvals			Down Keyway		Center		Up		Resistive	Inductive		
Model			Pole & Throw				•	-	AC 125V	AC 250V	DC 30V	AC 125V	Angle of Throw
521AW	_	_	DPST	ON	1-3 4-6	NONE	OFF	_	15A	15A	15A	200W	22°
S6AW	_	_	DPDT	ON	2-3 5-6	NONE	ON	2-1 5-4	20A	10A	20A	_	22°
57AW	_	_	DPDT	ON	2-3 5-6	OFF	ON	2-1 5-4	20A	10A	20A	_	28°
25AW	_	_	DPDT	ON	2-3 5-6	NONE	(ON)	2-1 5-4	15A	6A	20A	_	20°
\$28AW	_	_	DPDT	(ON)	2-3 5-6	OFF	(ON)	2-1 5-4	15A	6A	20A	_	22°
S29AW	_	_	DPDT	ON	2-3 5-6	OFF	(ON)	2-1 5-4	15A	6A	20A	_	22°
Throw & Schematic	cs:	DPST	1	INTERNAL OPDT 2 (COM) • 3 4 • 6 CONNECTION DPDT 3 • 1 6 6					Note: Terminal numbers of actually on the swit				

- Standard Hardware: AT503M Face Hex Nut, AT508 Lockwasher, AT537 O-ring. See Accessories & Hardware section.
- Contact factory for availability of .250" (6.35mm) quick connect terminals.











Maximum Panel Thickness: .158" (4.0mm)