

PRODUCTS

Series S

Low Capacity Toggles



- Download Specifications
- Configure This Switch!

Medium Capacity Toggles



- Download Specifications
- Configure This Switch!

Medium/High Capacity Toggles

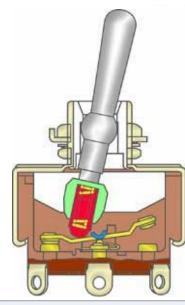


- Download Specifications
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High Capacity Toggles



- Download Specifications
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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.



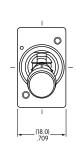
Medium Capacity Standard Size Toggles Series S

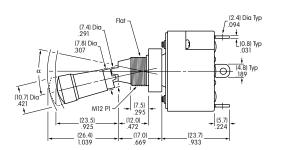
SINGLE POLE WITH LOCKING LEVER & PANEL SEAL

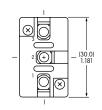
				Toggle Position/Connected Terminals					Electrical Capacity				
	Approvals		Pole & Throw	Down Keyway		Center	Up			Resistive	Inductive	α =	
Model									AC 125V	AC 250V	DC 30V	AC 125V PF 0.6	Angle of Throw
S1AL	_	_	SPST	ON	1-3	NONE	OFF	_	15A	6A	20A	8A	24°
S2AL	-	_	SPDT	ON	2-3	NONE	ON	2-1	15A	6A	20A	8A	24°
S3AL	-	_	SPDT	ON	2-3	OFF	ON	2-1	15A	6A	20A	8A	28°
Throw 8		S	PST	INTERNAL SPDT					Note: Terminal numbers are actually on the switch				

• Standard Hardware: AT503M Face Hex Nut, AT508 Lockwasher, AT537 O-ring. See Accessories & Hardware section.











S2AL S1AL does not have terminal 2

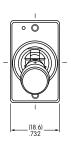
Maximum Panel Thickness: .158" (4.0mm)

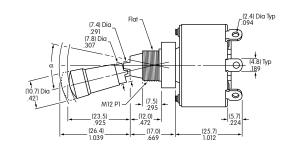
DOUBLE POLE WITH LOCKING LEVER & PANEL SEAL

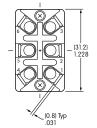
	1			,	oggle Positio	ii/ Colliec	ieu ieiiii		Electrical Capacity				
	Approvals			Down		Center	Up		Resistive Inductive				α =
Model			Pole & Throw	Keyway ¬					AC 125V	AC 250V	DC 30V	AC 125V PF 0.6	Angle of Throw
S21AL	_	_	DPST	ON	1-3 4-6	NONE	OFF	_	1 <i>5</i> A	15A	1 <i>5</i> A	8A	22°
S6AL	_	-	DPDT	ON	2-3 5-6	NONE	ON	2-1 5-4	20A	10A	20A	8A	22°
S7AL	l _	_	DPDT	ON	2-3 5-6	OFF	ON	2-1 5-4	20A	10A	20A	8A	28°

• Standard Hardware: AT503M Face Hex Nut, AT508 Lockwasher, AT537 O-ring. See Accessories & Hardware section.











Maximum Panel Thickness: .158" (4.0mm)