

PRODUCTS

Series S

Low Capacity Toggles



- Download Specifications Configure This Switch!

Medium Capacity Toggles



Configure This Switch!

Medium/High Capacity Toggles

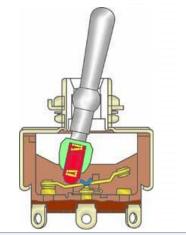
Download Specifications

• Download Specifications Configure This Switch!

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 \$31 ~ \$49

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
Mechanical Life:	50,000 operations minimum
Electrical Life:	25,000 operations minimum
Angle of Throw (α):	Shown on following tables
Mechanical Life: Electrical Life:	50,000 operations minimum 25,000 operations minimum

Materials & Finishes

Toggle:	PBT resin for flatted lever; brass with chrome plating for all others
Bushing:	Brass with chrome plating
Case:	Phenolic resin
Case Cover:	Steel with chromate plating over zinc plating
Movable Contactor:	Copper with silver plating
Movable Contacts:	Silver alloy capped on copper with silver plating
Stationary Contacts:	Silver alloy capped on copper with silver plating
Terminals:	Brass with silver 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
Soldering Time & Temperature:	Manual Soldering: See Profile A in Supplement section.

Standards & Certifications

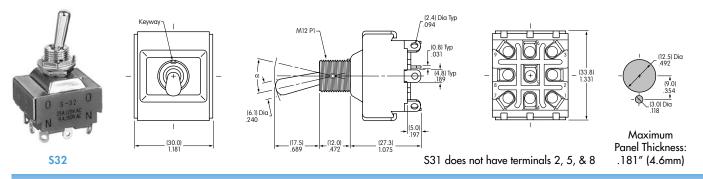
UL Recognized:	Designated with UL recognized symbol beside part numbers on following pages. See Supplement section to find UL rating details. UL File No. WOYR2.E44145 Add "/U" to end of part number to order UL mark on switch.
C-UL Recognized:	Designated with C-UL recognized symbol beside part numbers 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.



*See Sup for UL d		t sectio	'n			Toggle Positic ()	on/Connec = Momen		ninals					
						Down	Center		Up		Resistive	Inductive	α=	
Model	Ap	proval	s	Pole & Throw		Keyway				AC 125V	AC 250V	DC 30V	AC 125V PF 0.6	Angle of Throw
S 31	* <i>U</i> R°	\mathcal{U}_{a}	S P	3PST	ON	1-3 4-6 7-9	NONE	OFF	_	25A	9A	20A	10A	25°
S32	* <i>U</i> R°	$\mathcal{L}\mathcal{R}_{\circ}$	SP	3PDT	ON	2-3 5-6 8-9	NONE	ON	2-1 5-4 8-7	25A	9A	20A	10A	25°
S33	* <i>U</i> R°	\mathcal{LR}_{\circ}	SP	3PDT	ON	2-3 5-6 8-9	OFF	ON	2-1 5-4 8-7	25A	9A	20A	10A	30°
S35	LR.	$\mathcal{L}\mathcal{R}_{\circ}$	S P	3PDT	ON	2-3 5-6 8-9	NONE	(ON)	2-1 5-4 8-7	15A	6A	20A	. 8A	25°
S38	<i>IR</i> .	$\mathcal{L}\mathcal{R}_{\circ}$	(\$P	3PDT	(ON)	2-3 5-6 8-9	OFF	(ON)	2-1 5-4 8-7	15A	6A	15A	. 8A	25°
S39	LR.	\mathcal{LR}_{\circ}	(\$P	3PDT	ON	2-3 5-6 8-9	OFF	(ON)	2-1 5-4 8-7	15A	6A	15A	. 8A	25°
Throw & 3PST Schematics: 3PST 1 0 3 40 6 7 0 9 INTERNAL CONNECTION								3PD		al numbers the switch				

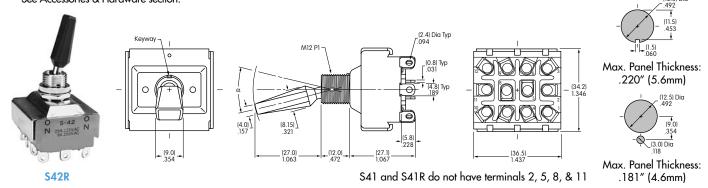
THREE POLE WITH SOLDER LUG

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



FOUR POLE WITH SOLDER LUG																			
*See Supplement section for UL detail () = Momentary								E											
Model							Down	Center			Up			R	Resistiv	e	Inductive	α =	
Suffix R = Flatted Lever	Appr	roval	s	Pole & Throw		Key	yway -								AC 125V	AC 250V	DC 30V	AC 125V PF 0.6	Angle of Throw
S41/S41R	، * <i>L</i> R	<i>IR</i> .	SP	4PST	ON	1-3	4-6 7-9	10-12	NONE	OFF				-	25A	9A	20A	10A	25°
S42/S42R	، * <i>L</i> R	<i>IR</i> ,	SP	4PDT	ON	2-3	5-6 8-9	11-12	NONE	ON	2-1	5-4	8-7	11-10	25A	9A	20A	10A	25°
S43/S43R	، * <i>L</i> R	<i>LR</i> °	(P	4PDT	ON	2-3	5-6 8-9	11-12	OFF	ON	2-1	5-4	8-7	11-10	25A	9A	20A	10A	30°
S45 –	ָ <i>נ</i> ר	<i>IR</i> ,	—	4PDT	ON	2-3	5-6 8-9	11-12	NONE	(ON)	2-1	5-4	8-7	11-10	15A	6A	20A	8A	25°
S48/S48R	ָ, <i>נ</i> ר	R	—	4PDT	(ON)	2-3	5-6 8-9	11-12	OFF	(ON)	2-1	5-4	8-7	11-10	15A	6A	20A	8A	25°
S49/S49R	, <i>L</i> R.	<i>LR</i> °	-	4PDT	ON	2-3	5-6 8-9	11-12	OFF	(ON)	2-1	5-4	8-7	11-10	15A	6A	20A	8A	25°
											ninal nbers are the switch								

• Standard Hardware: AT504M Knurled Face Nut, AT506 Locking Ring (not supplied with "R" models), AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.



NKK Switches

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