

GENERAL SPECIFICATIONS FOR SW3000s

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

B 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: 30,000 operations minimum
Electrical Life: 10,000 operations minimum
Angle of Throw (α): Shown on drawings or following tables

Materials & Finishes

Rocker: Urea resin; all rockers are white.
Mounting Frame: Steel with chromate plating over zinc plating
Case Cover/Insulator: Phenolic resin
Case: Melamine phenol
Movable Contactor Plate: Copper with silver plating
Movable & Stationary Contacts: Silver alloy plus copper with silver plating
Terminals: Copper with tin plating

Environmental Data

Operating Temp Range: -10°C through $+70^{\circ}\text{C}$ ($+14^{\circ}\text{F}$ through $+158^{\circ}\text{F}$)
Sealing: Dustproof cover of silicone rubber on SW3006A, SW3007A, & SW3008A

Installation

Maximum Panel Thickness: Shown with following drawings
Soldering Time & Temperature: Manual Soldering: See Profile A in Supplement section.

Standards & Certifications

- UL: File No. E44145 - Recognized only when ordered with marking on switch.**
 Add "/U" or "/CUL" to end of part number to order UL recognized switch.
 UL or cULus recognition designated beside part numbers on following pages.
 See Supplement section to find UL or cULus rating details.
- CSA: File No. 023535_0_000 - Certified only when ordered with marking on switch.**
 Add "/C" to end of part number to order CSA certified switch.
 CSA certification designated beside part numbers on following pages.
 See Supplement section to find CSA rating details.
- VDE: License No. 119189 - Approved only when ordered with marking on switch.**
 Add "/V" to end of part number to order VDE approved switch.
 SW3006A at 20A @ 125V AC & 10A @ 250V AC

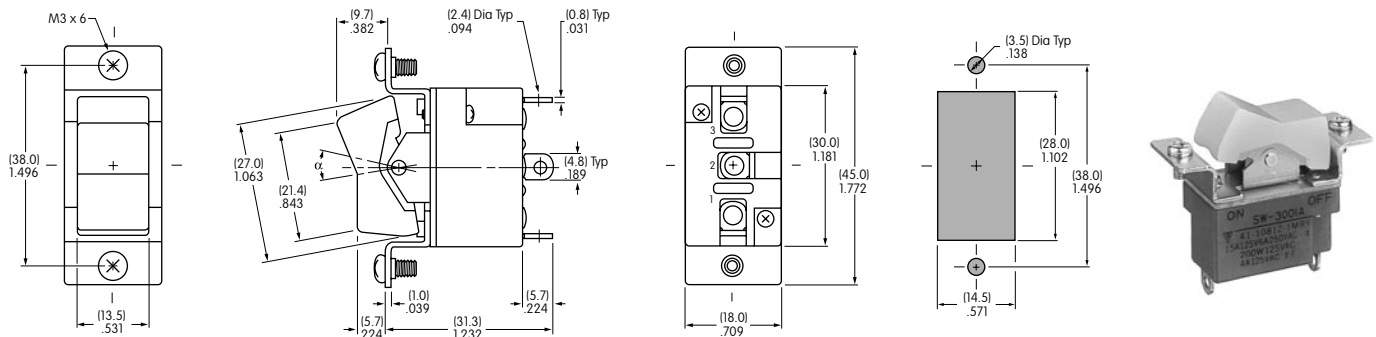
SINGLE POLE WITH SOLDER LUG *

* UL & CSA recognized only when ordered with marking on switch (see General Specs)		Rocker Position/Connected Terminals						Electrical Capacity					
Model	* Approvals		Pole	Down		Center	Up		Resistive		Inductive	α = Angle of Throw	
									AC 125V	AC 250V	DC 30V		AC 125V PF 0.6
SW3001A	✓	✓	SPST	ON	1-3	NONE	OFF	—	15A	6A	15A	10A	24°
SW3002A	✓	✓	SPDT	ON	2-3	NONE	ON	2-1	15A	6A	15A	10A	24°
SW3003A	✓	✓	SPDT	ON	2-3	OFF	ON	2-1	15A	6A	15A	10A	28°

Throw & Schematics: SPST INTERNAL CONNECTION SPDT

Note: Terminal numbers are actually on the switch.

* Wire harness & cable assemblies offered only in Americas.



Maximum Effective Panel Thickness:

SW3001A does not have terminal 2. .197" (5.0mm) for SW3001A & SW3002A models; .177" (4.5mm) for SW3003A models **SW3001A**

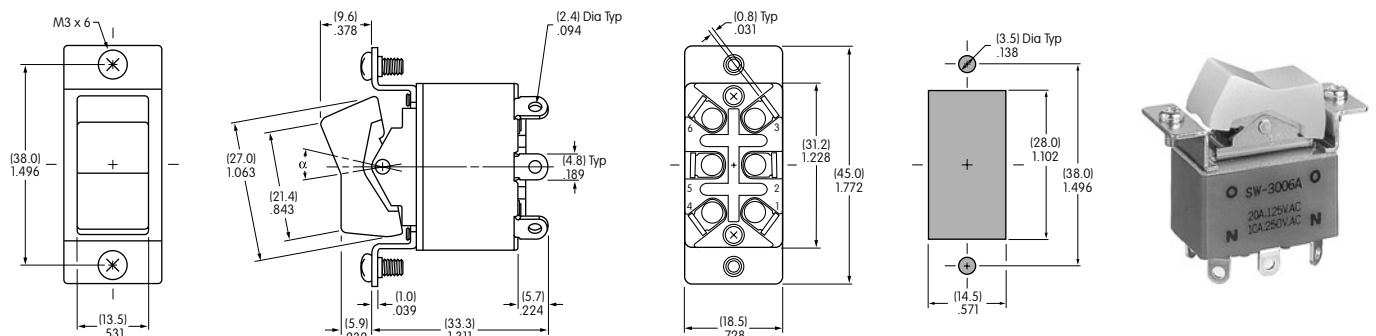
DOUBLE POLE WITH SOLDER LUG *

* UL, cULus & CSA recognized only when ordered with marking on switch (see General Specs)		Rocker Position/Connected Terminals () = Momentary						Electrical Capacity						
Model	* Approvals			Down		Center	Up		Resistive		Inductive	α = Angle of Throw		
									AC 125V	AC 250V	DC 30V		AC 125V PF 0.6	
SW3006A	✓	✓	✓	DPDT	ON	2-3 5-6	NONE	ON	2-1 5-4	20A	10A	20A	10A	24°
SW3007A	—	—	✓	DPDT	ON	2-3 5-6	OFF	ON	2-1 5-4	15A	6A	15A	10A	28°
SW3008A	—	—	—	DPDT	(ON)	2-3 5-6	OFF	(ON)	2-1 5-4	15A	6A	15A	10A	24°

Throw & Schematic: DPDT

Note: Terminal numbers are actually on the switch.

* Wire harness & cable assemblies offered only in Americas.



Maximum Effective Panel Thickness:

.197" (5.0mm) for SW3006A & SW3008A models; .177" (4.5mm) for SW3007A models **SW3006A**

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Supplement

B Electrical Capacity (Resistive & Inductive Load)

Power Level: Shown in the following tables
 Note: See Supplement section for details of design for inductive DC loads.

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: Shown on following drawings
Nominal Operating Force: 1,800 grams for SW3822
 2,200 grams for SW3823 Off to On
 800 grams for SW3823 On to Off

Materials & Finishes

Rocker: Urea resin; all rockers are white.
Mounting Frame: Steel with chromate plating over zinc plating
Case Cover/Insulator: Phenolic resin
Case: Melamine phenol
Movable Contacts: Copper with silver plating
Stationary Contacts: Silver alloy plus copper with silver plating
Terminals: Brass (terminal screws of brass with nickel plating)

Environmental Data

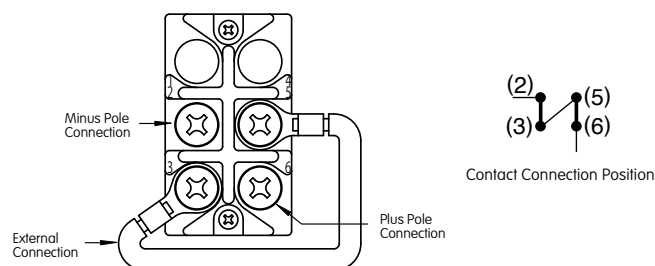
Operating Temp Range: -10°C through +70°C (+14°F through +158°F)

Standards & Certifications

UL: **File No. E44145 - Recognized only when ordered with marking on switch.**
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CSA: **File No. 023535_0_000 - Certified only when ordered with marking on switch.**
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 See Supplement section to find CSA rating details.

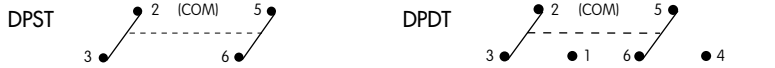
Wiring for DC400V 10A



DOUBLE POLE WITH SCREW LUG

Model	*Approvals UL cULus CSA	Pole	Rocker Position/Connected Terminals						Electrical Capacity									
			Down		Center	Up		Resistive				Inductive						
			ON	2-3 5-6	NONE	OFF	—	AC 125V	AC 250V	DC 30V	DC 48V	DC 125V	DC 250V	DC 400V	AC 125V PF 0.6	AC 250V PF 0.6		
SW3821	✓	✓	✓	DPST	ON	2-3 5-6	NONE	OFF	—	30A	30A	30A	—	1A	—	—	30A	15A
SW3822	✓	✓	✓	DPDT	ON	2-3 5-6	NONE	ON	2-1 5-4	30A	30A	30A	—	1A	—	—	30A	15A
SW3823	✓	✓	✓	DPDT	ON	2-3 5-6	OFF	ON	2-1 5-4	30A	30A	30A	—	1A	—	—	30A	15A
SW3821D	✓	✓	✓	DPST	ON	2-3 5-6	NONE	OFF	—	—	—	30A	30A	20A	15A	4A (10A)	—	—
SW3822D	✓	✓	✓	DPDT	ON	2-3 5-6	NONE	ON	2-1 5-4	—	—	30A	30A	20A	15A	4A	—	—
SW3823D	✓	✓	✓	DPDT	ON	2-3 5-6	OFF	ON	2-1 5-4	—	—	30A	30A	15A	—	—	—	—

Throw & Schematics:

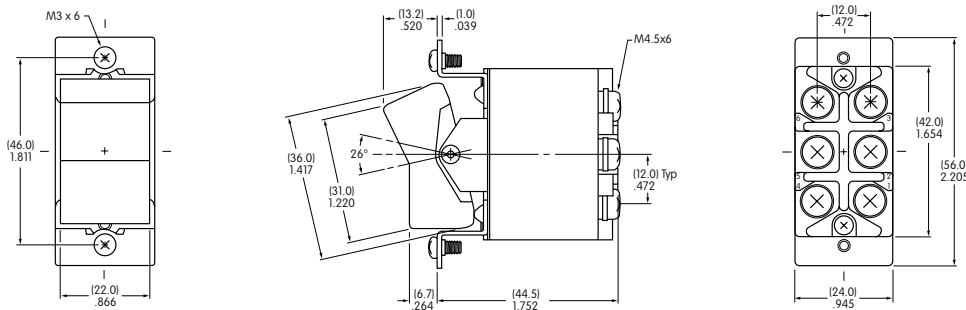


Note: Terminal numbers are actually on the switch.

* UL/CUL & CSA for the following ratings: UL/CUL: 30A @ 30V DC, 15A @ 125V DC; CSA: 30A @ 30V DC, 15A @ 125V DC

* UL, cULus & CSA recognized only when ordered with marking on switch (see General Specs)

() capacity is due to series wiring, see General Specifications page.



SW3821 & SW3821D do not have terminals 1 & 4.

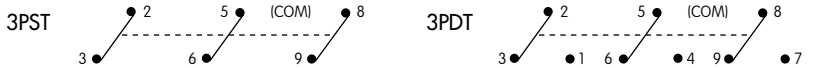
Maximum Effective Panel Thickness .177" (4.5mm). Panel cutout shown below.

SW3822

THREE POLE WITH SCREW LUG

Model	*Approvals UL cULus CSA	Pole	Rocker Position/Connected Terminals						Electrical Capacity						
			Down		Center	Up		Resistive				Inductive			
			ON	2-3 5-6 8-9	NONE	OFF	—	AC 125V	AC 250V	DC 30V	DC 125V	AC 125V PF 0.6	AC 250V PF 0.6		
SW3831	✓	✓	✓	3PST	ON	2-3 5-6 8-9	NONE	OFF	—	30A	30A	30A	1A	30A	15A
SW3832	✓	✓	✓	3PDT	ON	2-3 5-6 8-9	NONE	ON	2-1 5-4 8-7	30A	30A	30A	1A	30A	15A
SW3833	✓	✓	✓	3PDT	ON	2-3 5-6 8-9	OFF	ON	2-1 5-4 8-7	30A	30A	30A	1A	30A	15A
SW3831D	✓	✓	✓	3PST	ON	2-3 5-6 8-9	NONE	OFF	—	—	—	30A	15A	—	—
SW3832D	✓	✓	✓	3PDT	ON	2-3 5-6 8-9	NONE	ON	2-1 5-4 8-7	—	—	30A	15A	—	—
SW3833D	✓	✓	✓	3PDT	ON	2-3 5-6 8-9	OFF	ON	2-1 5-4 8-7	—	—	30A	15A	—	—

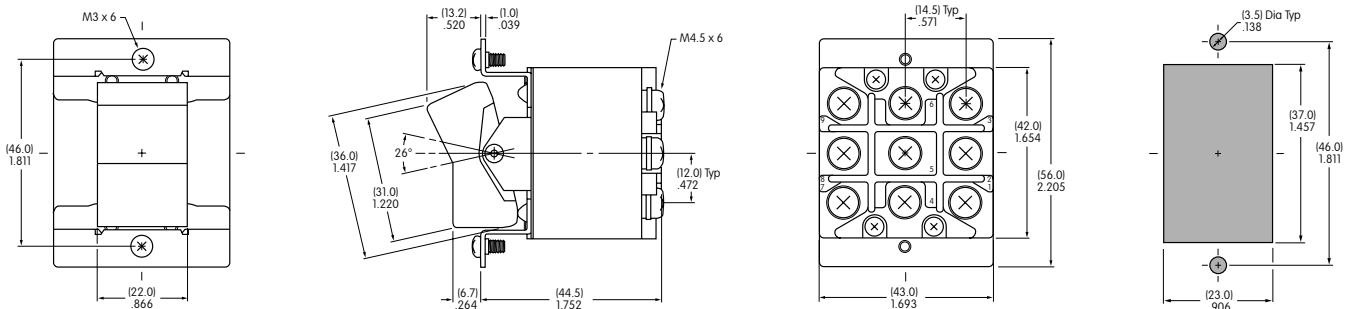
Throw & Schematics:



Note: Terminal numbers are actually on the switch.

* UL/CUL & CSA for the following ratings: UL/CUL: 30A @ 30V DC, 15A @ 125V DC; CSA: 30A @ 30V DC, 15A @ 125V DC

* UL, cULus & CSA recognized only when ordered with marking on switch (see General Specs)



SW3831 & SW3831D do not have terminals 1, 4 & 7.

Maximum Effective Panel Thickness .177" (4.5mm)