GENERAL SPECIFICATIONS FOR SW3000s

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°C (+14°F through +158°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. 40028826 - 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

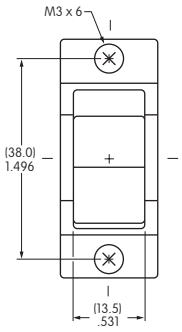
SINGLE POLE WITH SOLDER LUG

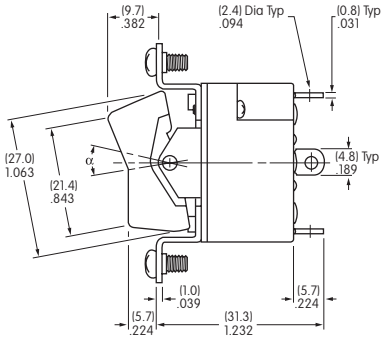
* UL & CSA recognized only when ordered with marking on switch (see General Specs)			Rocker Position/Connected Terminals						Electrical Capacity				
	*Approvals			Down		Center	Up		Resistive			Inductive	α = Angle of Throw
Model			Pole						AC 125V	AC 250V	DC 30V	AC 125V PF 0.6	
SW3001A	✓	✓	SPST	ON	1-3	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°

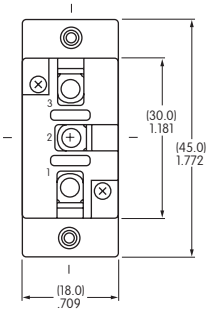
Throw & Schematics: SPST 

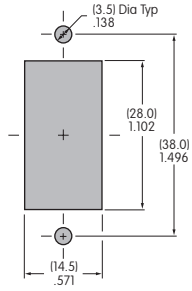
SPDT 

Note: Terminal numbers are actually on the switch.











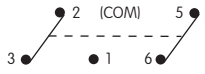
Maximum Effective Panel Thickness:
.197" (5.0mm) for SW3001A & SW3002A models; .177" (4.5mm) for SW3003A models

SW3001A does not have terminal 2.

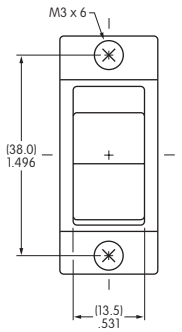
SW3001A

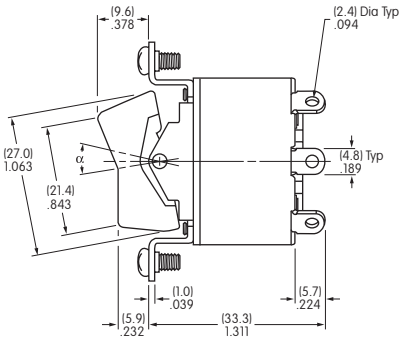
DOUBLE POLE WITH SOLDER LUG

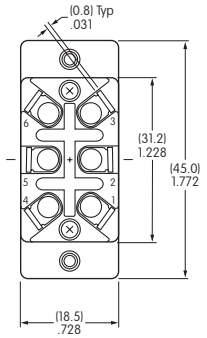
* UL, cULus & CSA recognized only when ordered with marking on switch (see General Specs)				Rocker Position/Connected Terminals ( ) = Momentary							Electrical Capacity				
	*Approvals			Down			Center	Up			Resistive			Inductive	α = Angle of Throw
Model				Pole							AC 125V	AC 250V	DC 30V	AC 125V PF 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°

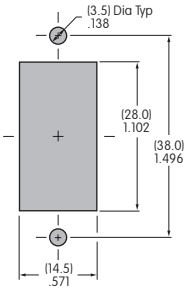
Throw & Schematic: DPDT 

Note: Terminal numbers are actually on the switch.











Maximum Effective Panel Thickness:
.197" (5.0mm) for SW3006A & SW3008A models; .177" (4.5mm) for SW3007A models

SW3006A

GENERAL SPECIFICATIONS FOR SW3800s

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

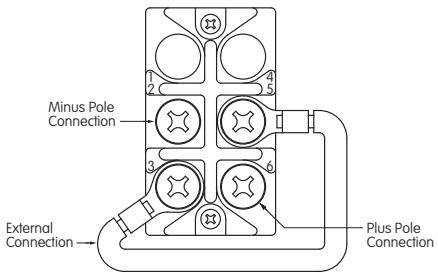
Operating Temp Range: –10°C through +70°C (+14°F through +158°F)

Standards & Certifications

UL: **File No. E44145 - Recognized only when ordered with marking on switch.**
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.

Wiring for SW3821D with Electrical Capacity of DC400V 10A





Contact Connection Position

DOUBLE POLE WITH SCREW LUG

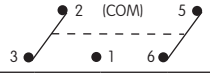
Model	*Approvals	Pole	Rocker Position/Connected Terminals: Down	Center	Up	Electrical Capacity: Resistive AC 125V	AC 250V	DC 30V	DC 48V	DC 125V	DC 250V	DC 400V	Inductive AC 125V PF 0.6	AC 250V PF 0.6
SW3821	✓ ✓ ✓	DPST	ON 2-3 5-6	NONE	OFF —	30A	30A	30A	—	1A	—	—	30A	15A
SW3822	✓ ✓ ✓	DPDT	ON 2-3 5-6	NONE	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:

DPST



DPDT

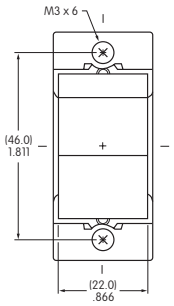


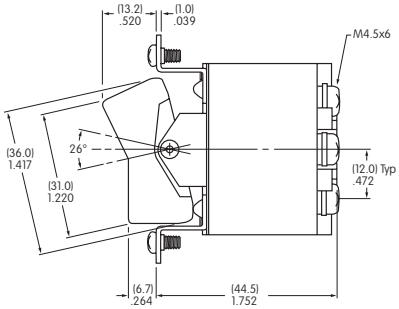
Note: Terminal numbers are actually on the switch.

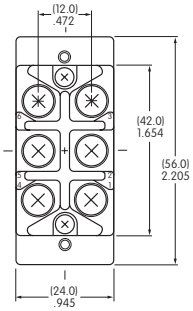
* UL/CUL & CSA for the following ratings: UL/CUL: 30A @ 30V DC, 15A @ 125V DC; CSA: 30A @ 30V DC, 15A @ 125V DC

*** 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.

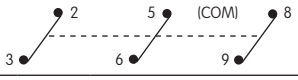
SW3822

THREE POLE WITH SCREW LUG

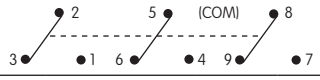
Model	*Approvals	Pole	Rocker Position/Connected Terminals: Down	Center	Up	Electrical Capacity: Resistive AC 125V	AC 250V	DC 30V	DC 125V	Inductive AC 125V PF 0.6	AC 250V PF 0.6
SW3831	✓ ✓ ✓	3PST	ON 2-3 5-6 8-9	NONE	OFF —	30A	30A	30A	1A	30A	15A
SW3832	✓ ✓ ✓	3PDT	ON 2-3 5-6 8-9	NONE	ON 2-1 5-4 8-7	30A	30A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

3PST



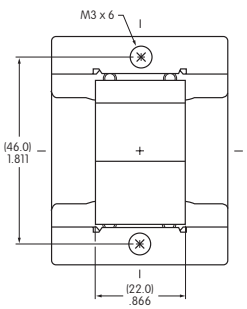
3PDT

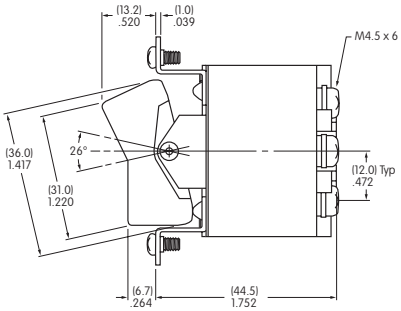


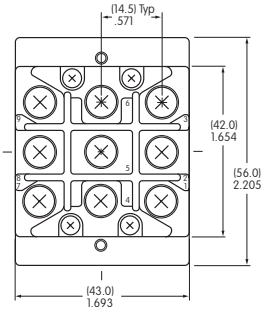
Note: Terminal numbers are actually on the switch.

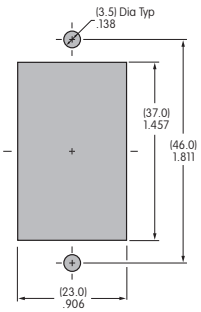
* UL/CUL & CSA for the following ratings: UL/CUL: 30A @ 30V DC, 15A @ 125V DC; CSA: 30A @ 30V DC, 15A @ 125V DC

*** 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)