Series SW

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
Novable & 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

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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

Supplement Accessories Indicators



Medium Capacity Rockers

SINGLE POLE WITH SOLDER LUG* * UL & CSA recognized only when **Electrical Capacity** ordered with marking on switch **Rocker Position/Connected Terminals** (see General Specs) Resistive Inductive * Approvals Down Center Up α= В Angle AC 125V AC 125V AC 250V DC 30V *R*° Ð Model Pole of Throw PF 0.6 SW3001A SPST ON 1-3 NONE OFF 15A 15A 24° 1 1 _ 6A 10A SW3002A 1 1 SPDT ON 2-3 NONE ON 2-1 15A 6A 15A 10A 24° SW3003A SPDT ON OFF ON 2-3 2-1 10A 28° 1 15A 15A 1 6A 2 (COM) Throw & SPST SPDT Terminal numbers are Note: INTERNAL CONNECTION Schematics: actually on the switch. • 1

(0.8) Typ .031

Rocker Position/Connected Terminals () = Momentary

Center

NONE

OFF

OFF

6

(COM) 2

(2.4) Dia Typ 094

(4.8) Typ 0)

.189

പ്

6

+ (5.7 .224

Down

2-3 5-6

2-3 5-6

2-3 5-6

3

ON

ON

(ON)

DPDT

(]

(5.9)

(1.0) - (1.0)

(33.3)

(9.6)

* Wire harness & cable assemblies offered only in Americas.



SW3001A does not have terminal 2.

* Approvals

A .**R**. *LR*.

Pole

DPDT

DPDT

DPDT

Wire harness & cable assemblies offered only in Americas.

(21.4) .843

(27.0) 1.063

* UL, cULus & CSA recognized

only when ordered with marking on switch (see General Specs)

Model

SW3006A

SW3007A

SW3008A

Throw &

M3 x 6

(38.0)

()

(*)

(13.5)

Schematic:



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

Up

2-1 5-4

2-1 5-4

2-1 5-4

(0.8) Typ .031

(31.2) 1.228

(45.0) 1.772

DOUBLE POLE WITH SOLDER LUG*

ON

ON

(ON)

• 4



Inductive

AC 125V

PF 0.6

10A

10A

10A

Terminal numbers are

actually on the switch.

SW3001A

α=

Angle

of Throw

24°

28°

24°

(28.0)

Electrical Capacity

DC

30V

20A

15A

15A

Note:

Resistive

AC

250V

10A

6A

6A

(3.5) Dia Typ .138

(28.0) 1.102

(38.0) 1.496

A

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(14.5)

AC

125V

20A

15A

15A

Series SW

Programmable | Keylocks

Toggles

Rockers

Pushbuttons

Illuminated PB

Rotaries

Slides

Tactiles



Indicators

Accessories Supplement

Maximum Effective Panel Thickness:

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

0

(18.5)



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SW3006A

Series SW

GENERAL SPECIFICATIONS FOR SW3800s

Rockers Electrical Capacity (Resistive & Inductive Load) В **Power Level:** Shown in the following tables Note: See Supplement section for details of design for inductive DC loads. Keylocks Programmable Illuminated PB Pushbuttons **Other Ratings** 10 milliohms maximum **Contact Resistance: 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 Rotaries 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) Slides **Environmental Data** -10°C through +70°C (+14°F through +158°F) **Operating Temp Range:** Tactiles **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. Touch 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. Supplement Accessories Indicators Wiring for DC400V 10A Minus Pole Connection (6) Contact Connection Position

External Connection

Plus Pole Connection

Toggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Tactiles

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Touch

Indicators

Supplement Accessories

							DC	OUBLE	PO	LE \	NITI	H SC	REW	' LUC	3						
					Rocke	r Posi	tion/C	Connected	Termi	nals					Eİ	ectrical	Capaci	ity			
	*A	pprov	als			Down		Center		Up					Resist	ive			Indu	ctive	
Model	<i>L</i> ₽₀	c AL us	(P	Pole				*		1	l	AC 125V	AC 250V	DC 30V	DC 48V	DC 125V	DC 250V	DC 400V	AC 125V PF 0.6	AC 250V PF 0.6	В
SW3821	1	/	\checkmark	DPST	ON	2-3	5-6	NONE	OFF	-	_	30A	30A	30A	-	1A	-	-	30A	15A	
SW3822	1	\checkmark	\checkmark	DPDT	ON	2-3	5-6	NONE	ON	2-1	5-4	30A	30A	30A	-	1A	-	-	30A	15A	
SW3823	1	\checkmark	\checkmark	DPDT	ON	2-3	5-6	OFF	ON	2-1	5-4	30A	30A	30A	-	1A	-	-	30A	15A	
SW3821D	1	1	\checkmark	DPST	ON	2-3	5-6	NONE	OFF	-	_	-	_	30A	30A	20A	15A	4A (10A)	-	-	
SW3822D	1	/	\checkmark	DPDT	ON	2-3	5-6	NONE	ON	2-1	5-4	-	-	30A	30A	20A	15A	4A	_	_	
SW3823D	1	\checkmark	\checkmark	DPDT	ON	2-3	5-6	OFF	ON	2-1	5-4	_	-	30A	30A	15A	-	-	—	_	_
Throw & Schematic	s:		D	PST 3	<u></u>	2 (CO)	W) :	5.9		DPDT	3 ●	2 ²	(COM)	5	● 4		Note:	Terminal r actually o			

* 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

					F	lockei	Posi	tion/C	Connected	Termir	Electrical Capacity									
	*A	pprovo	als		Down			Center	Up				Resi	Indu	Inductive					
Model	R	c 91 °us	SP	Pole		5							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	~	\checkmark	\checkmark	3PDT	ON	2-3	5-6	8-9	NONE	ON	2-1	5-4	8-7	30A	30A	30A	1A	30A	15A	
SW3833		\checkmark	\checkmark	3PDT	ON	2-3	5-6	8-9	OFF	ON	2-1	5-4	8-7	30A	30A	30A	1A	30A	15A	
SW3831D	~	\checkmark	\checkmark	3PST	ON	2-3	5-6	8-9	NONE	OFF		_		_	_	30A	15A	-	_	
SW3832D	~	\checkmark	\checkmark	3PDT	ON	2-3	5-6	8-9	NONE	ON	2-1	5-4	8-7	_	_	30A	15A	-	_	
SW3833D	~	\checkmark	\checkmark	3PDT	ON	2-3	5-6	8-9	OFF	ON	2-1	5-4	8-7	_	_	30A	15A	-	_	
Throw & Schematics	:	3PST		• ²	6 •⁄	5 • (COM) 9 •⁄	- 8	3PDT	3●∕	<u>/</u>	1 6 •	5 •	(COM) 4 9	• 7	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)



