

santon

Suitable as photovoltaic disconnect switch in accordance with Article 690 of NFPA 70 (NEC) UL 508i, (including the requirements for PV application) UL 508i by UL







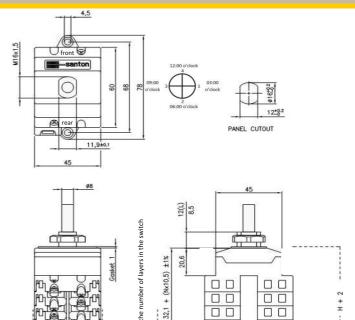
	Terminals Scheme									
	Layer Front Side		Symbol	Rear Side		On Positions				
	No.	Left	Right	Symbol	Left	Right	1	2	3	4
1										
d	13	+6			+6			Х		Х
-	12		-6	_/_		-6		Χ		Χ
	11	-5		_/_	-5			Х		Х
	10		+5	_/_		+5		Х		Х
	9	+4		-/-	+4			Х		Х
	8		-4	-/-		-4		Х		Х
	7	-3		_/_	-3			Χ		Х
	6		+3	_/_		+3		Х		Х
	5	+2		-/-	+2			Х		Х
	4		-2	-/-		-2		Х		Х
	3	-1		-/-	-1			Х		Х
	2		+1	-/-		+1		Х		Х
	1			empty						

Contacts are made in "X" marked position.

Symbols for interconnection: [

Technical data	Symbol	Merit	Unit
nominal voltage (DC poles)	U	600	V dc
nominal current (DC poles)	T	25	A dc
method of mounting	both bottom a	nd single hole mounting [D]	
number of poles, double pole switching		12	
utilization category DC	Photovoltaic d	lisconnect switch	
actuator	knob with pad	lock and top screw, black/grey [G]	
IP rating base mounting with G- ,H- or R-knob		IP65	
method of operation	independent n	nanual operation	
positions	OFF at 3 hr, ON	N at 6 hr, OFF at 9 hr, ON at 12 hr	
rated impulse withstand voltage	Uimp	8	kV
insulation voltage	Ui	600	V
rated thermal current uninterrupted duty	lu	25	Α
rated short-time withstand current (1s)	lcw	750	Α
suitable for use on a circuit capable of delivery not more than 5.000 rms symmetric	cal Amperes, 600	Vdc max, when protected by fuse	es
rated conditional short-circuit current		5	kA
minimum required dimensions of enclosures L x W x H* (on DIN-rail H = +2mm) {s	pace envelope}	124 x 47 x 168,6	mm
* see the drawing for the height of the switch. The number of layers N is:		13	
Shaft length		25	mm
tightening torque terminal screws M4 , min max.		1,5 1,7	Nm
		13 15	Lb.In
tightening torque M3 screw in the standard black knob, min max.		0,5 0,7	Nm
		5 6	Lb.In
tightening torque for the nut on the single hole mounting knob, min max.		2,0 2,5	Nm
		18 22	Lb.In
ambient temperature allowed between		- 25 to + 70	°C
storage temperature allowed between		- 40 to + 80	*c
maximum relative humidity, without condensation at 20°C		90	%
nominal voltage (AC poles)	U		V ac
nominal current (AC poles)	ı		A ac
number of AC poles (for general use)			A dt
wire size, "Use 75°C Copper Wire Only", minimum required fine wire cross-section:			mm2
wife size, Ose 73 C copper wife only , minimum required line wife cross-section.	•		AWG
auxiliary contact:		No auxil	liary contac
weight		522	
accessories:	_	322	g
accessories.			
	-		

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Mounting instructions

In the application all ratings according to the datasheet have to be respected. After mounting, the wiring must be checked and the switch must operate smoothly. When building the switch in an enclosure, the space envelope must be respected according to the applicable standards.

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The X type switches are designed for a very long life but it is advised to do some simple yearly maintenance.

- Check the installation for signs of overload or overheating. The terminals may not exceed the limit of 85°C under full load.
- By operating the switch a few times (5x) the contacts will clean themselves and the switch will have a longer life.

	onnection details						
	Description	Symbol	Values	Unit			
	Rated operational current (DC poles)	le	25	A dc			
	Required fine wire cross-section (minimal): AWG	AWG	4	AWG			
m	max power dissipation	Р	7,1	W			

The terminals, without interconnection can take copper wires up to 6 mm2.

The recommended Spade Tongue Terminals may have a maximum width of 9 mm.

For CSA and UL applications, registered Spade Tongue Terminals must be used.

The registration numbers are UL: E13288 and CSA: LR7189 (for instance type 165015 from Tyco).

Registerd Spade Tongue Terminals

Registera Space Forminais						
Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	Color		
JST	FVD2-YS4A	AWG 16 – AWG 14	1,0 - 2,5 mm ²	Blue		
TE connectivity	C-165012	AWG 16 - AWG 14	1,0 - 2,5 mm ²	Blue		
Vogt	3635c	AWG 16 – AWG 14	1,5 – 2,5 mm²	Blue		
TE connectivity	C-165015	AWG 12 - AWG 10	3,0 - 6,0 mm ²	Yellow		
Vogt	3652c / 3653c	AWG 12 - AWG 10	3,0 - 6,0 mm²	Yellow		
Santon (JST)	52A1256.35	AWG 8 - AWG 10	10,5mm²-16mm² *1	*2		

*1 16mm² only with fine stranded wire or two 6mm² is also possible

*2 Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00

Dimensions, specifications and data shown are be subject to change without notice.

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