

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

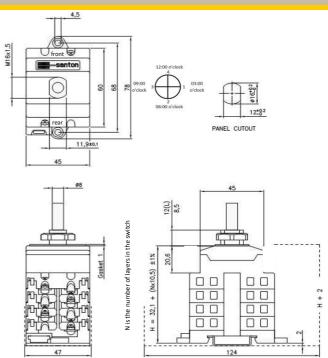




Terminals Scheme									
Layer	Front Side		Symbol	Rear Side		On Position			
No.	Left	Right	Symbol	Left	Right	1	2	3	4
8	-3		-/-	-3			Х		Х
7		+3	-/-		+3		Х		Х
6	+2		-/-	+2			Х		Х
5		-2	-/-		-2		Х		Х
4	-1		-/-	-1			Х		Х
-		+1	-/-		+1		Х		Х
3			empty						
2	13		-/-	14			Х		Х
		11			12	Х		Х	
1			empty						

Contacts are made in "X" marked position.

		ire made in "X" mar		
		or interconnection:	[
Technical data	Symbol Mer	it		Unit
nominal voltage (DC poles)	U		600	V dc
nominal current (DC poles)	1		25	A dc
method of mounting	both bottom and	single hole mountin	g [D]	
number of poles, double pole switching			6	
utilization category DC	Photovoltaic disco	nnect switch		
actuator	knob with top scre	ew, red [F]		
IP rating base mounting with G- ,H- or R-knob			-	
method of operation	independent man	ual operation		
positions	OFF at 3 hr, ON 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
more than 5.000 rms symmetrical Amperes, 600 Vdc				
rated conditional short-circuit current			5	kA
minimum required dimensions of enclosures L x W x H* (on DIN-rail H = +2mm)	space envelope}	124 x	47 x 116,1	mm
* see the drawing for the height of the switch. The number of layers N is:			8	
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
, o , o , o , o , o , o , o , o , o , o		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)	•			7140
wire size, "Use 75°C Copper Wire Only", minimum required fine wire cross-section	n·			mm2
wite size, ose 75 e copper wite only , minimum required line wite cross section				AWG
auxiliary contact: Both NO and NC in one ch	amher A150 120V r	nax VΔ=7200·[R]		71110
weight	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	77. 7200. [10]	350	g
accessories:	_		330	5
accessories.				



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.

Maintenance

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.

Connection details

Description	Symbol	Values	Unit
Rated operational current (DC poles)	le	25	A dc
Required fine wire cross-section (minimal): AWG	AWG	4	AWG
max power dissipation	Р	3,6	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

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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.

Superior Switch Solutions

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