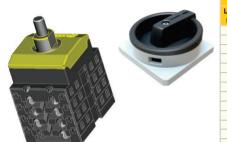


Suitable as photovoltaic disconnect switch in accordance with Article 690 of NFPA 70 (NEC) UL 508, including the requirements for PV application UL 508i by UL

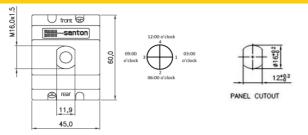


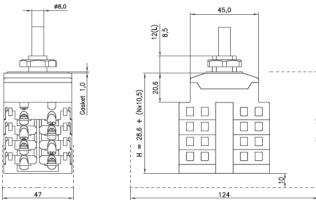


							_		
			Terminals	Schem	ne				
Layer	From	t Side	Rear Side On Position			Symbol	Rear Side		ns
No.	Left	Right	Зуппооі	Left	Right	1	2	3	4
6	-3		-/-	-3			Χ		Х
5		+3	-/-		+3		Χ		Х
4	+2		-/-	+2			Χ		Х
3		-2	_/_		-2		Χ		Х
2	-1		_/_	-1			Χ		Х
1		+1	-/-		+1		Χ		Х

Contacts are made in "X" marked position. Symbols for interconnection: [

Fechnical data	Symbol M	lerit		Unit
nominal voltage (DC poles)	U		600	V dc
nominal current (DC poles)	1		25	A dc
method of mounting	single hole mour	nting IP65 [P] termina	ls access fror	n top sid
number of poles, double pole switching			6	
utilization category DC	Photovoltaic disc	connect switch		
actuator	knob with padlo	ck and top screw, blac	dk/grey [G]	
P rating base mounting with G- ,H- or R-knob			IP65	
nethod of operation	independent ma	nual operation		
positions	OFF at 3 hr, ON a	at 6 hr, OFF at 9 hr, O	N at 12 hr	
rated impulse withstand voltage	Uimp		8	kV
nsulation voltage	Ui		600	V
rated thermal current uninterrupted duty	lu		25	Α
rated short-time withstand current (1s)	lcw		750	Α
uitable for use on a circuit capable of delivery not more than 5,000 rms symmetri	ical Amperes, 600 \	vdc max, when protec	ted by fuses	
rated conditional short-circuit current			5	kA
minimum required dimensions of enclosures L x W x H* {space envelope}		124×	47 x 95,1	mm
see the drawing for the height of the switch. The number of layers N is.			6	
Shaft length			25	mm
ightening torque terminal screws M4 , min max.		1,5	1,7	Nm
		13	15	Lb.In
ightening torque M3 screw in the standard black knob, min max.		0,5	0,7	Nm
·		5	6	Lb.In
ightening torque for the nut on the single hole mounting knob, min max.		2,0	2,5	Nm
<u> </u>		18	22	Lb.In
embient temperature allowed between		-	25 to +70	°C
torage 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)	1			A ac
number of AC poles (for general use)				
wire size, "Use 75°C Copper Wire Only", minimum required fine wire cross-section	:			mm2
auxilliary contact:			No aux ili ar	,
weight .			284	g
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	12	AWG
max power dissipation	P	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

regional operation of the remaining						
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 mm²	Blue		
Vogt	3635c	AWG 16 - AWG 14	1,5 - 2,5 mm ²	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 mm ²	Yellow		
Santon (JST)	52A1256.35	AWG 8 - AWG 10	10.5mm ² -16mm ² * 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 52A1.564.00

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

Superior Switch Solutions Superior Switch Solutions