

## Data Sheet

Santon X-Type switch XA100.16B12E-A

Switch disconnecter for solar application according to IEC 60947-1&3 by Dekra (KEMA)



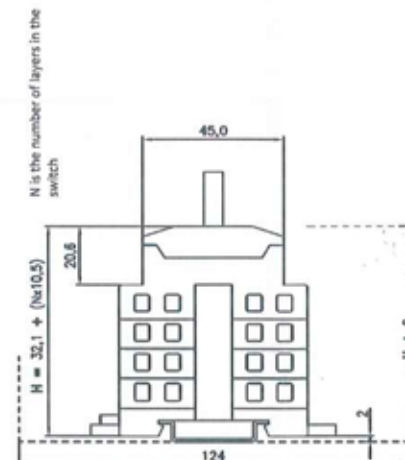
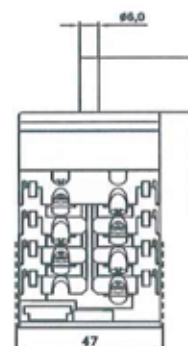
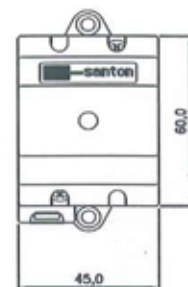
Terminals Scheme									
Layer No.	Front Side Left	Front Side Right	Symbol	Rear Side Left	Rear Side Right	On Positions	1	2	3
13	+6			+6		X			
12		-6			-6	X			
11	-5			-5		X			
10		+5			+5	X			
9	+4			+4		X			
8		-4			-4	X			
7	-3			-3		X			
6		+3			+3	X			
5	+2			+2		X			
4		-2			-2	X			
3	-1			-1	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

Contacts are made in "X" marked position.

Symbols for interconnection: [

Technical data	Symbol	Merit	Unit
rated operational voltage (DC poles)	Ue	1000	V dc
rated operational current (DC poles)	Ie	16	A dc
rated operational voltage (second rating DC poles, if requested)	Ue	850	V dc
rated operational current (second rating DC poles, if requested)	Ie	20	A dc
rated operational voltage (third rating DC poles, if requested)	Ue	800	V dc
rated operational current (third rating DC poles, if requested)	Ie	25	A dc
method of mounting	DIN rail and or Base mounting (B)		
number of DC poles		12	
utilization category DC	DC-21B		
actuator	standard black (A)		
positions	OFF at 12 hr, ON at 3 hr (E)		
rated impulse withstand voltage	Uimp	8	kV
rated insulation voltage	Ui	1000	V
rated thermal current uninterrupted duty	Iu	25	A
rated short-time withstand current (1s)	Icw	750	A
rated short-circuit making capacity	Icm	1,4	kA
rated conditional short-circuit current		5	kA
max power dissipation		5,3	W
method of operation	Independent manual operation		
minimum required dimensions of enclosures L x W x H*		124 x 47 x 168,5	mm
* see the drawing for the height of the switch. The number of layers N is:		13	
Shaft length		19	mm
Enclosure depth from inside bottom to outside top, required for the switch and knob		201,5	mm
tightening torque terminal screws M4, min. - max.	1,5	1,7	Nm
tightening torque M3 screw in the standard black knob, min. - max.	0,5	0,7	Nm
tightening torque for the nut on the single hole mounting knob, min. - max.	1,8	2,0	Nm
minimum required fine wire cross-section: IEC60947-1, table 9		4	mm2
ambient temperature allowed between	- 20 to + 70 °C		°C
storage temperature allowed between	- 40 to + 80 °C		°C
maximum relative humidity, without condensation at 20 °C	90		%
pollution degree	2		
IP rating terminals	IP20		
IP rating base mounting with G- or H-knob		-	
rated operational voltage (AC poles)	Ue		V ac
rated operational current (AC poles)	Ie		A ac
number of AC poles			
minimum required fine wire cross-section: IEC60947-1, table 9			mm2
auxiliary contact(s), AC15		No auxiliary contact	
auxiliary contact ratings			
weight		522	g
accessories:			

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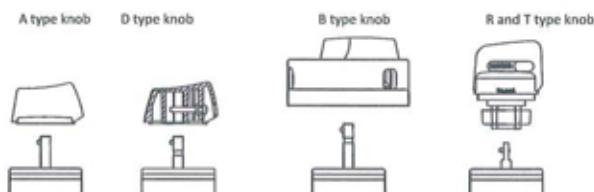


### Mounting instructions

In the application all ratings have to be respected. When building the switch in an enclosure, the space envelope must be respected according to the applicable standards. The terminals, without interconnection can take copper wires up to 6 mm<sup>2</sup>. 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). After mounting, the wiring must be checked and the switch must operate smoothly.

### 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.



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

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