

Data Sheet Santon X-Type switch **XA100.16B12E-A**

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

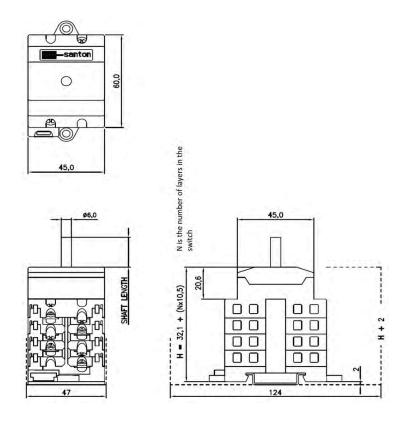




Terminals Scheme												
Layer	Front Side		Symbol	Rear Side		On Positions						
No.	Left	Right	Symbol	Left	Right	1	2	3	4			
13	+6		-/-	+6		Х						
12		-6	_/_		-6	Χ						
11	-5		-/-	-5		Χ						
10		+5	-/-		+5	Χ						
9	+4		-/-	+4		Х						
8		-4	_/_		-4	Х						
7	-3		_/_	-3		Χ						
6		+3	_/_		+3	Χ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

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

		Symbols for i			
Technical data	Symbol	Merit		Unit	
rated operational voltage (DC poles)	Ue		1000	V dc	
rated operational current (DC poles)	le		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)	le		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)	le		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 l	hr, ON at 3 hr [E]			
rated impulse withstand voltage	Uimp		8	kV	
insulation voltage	Ui		1000	V	
rated thermal current uninterrupted duty	lu		25	Α	
rated short-time withstand current (1s)	lcw		750	Α	
rated short-circuit making capacity	Icm		1,4	kA	
rated conditional short-circuit current			5	kA	
max power dissipation			5,3	kA	
method of operation	independe	nt manual operation			
minimum required dimensions of enclosures L x W x H*		12	4 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			- 25 to + 70	°C	
storage temperature allowed between			- 40 to + 80	°C	
maximum relative humidity, without condensation at 20°C			90	%	
pollution degree			2	,-	
IP rating terminals			IP20		
IP rating base mounting with G-, H- or R-knob					
rated operational voltage (AC poles)	Ue			V ac	
rated operational current (AC poles)	le			A ac	
number of AC poles	10			Auc	
minimum required fine wire cross-section: IEC60947-1, table 9				mm²	
			Ne emilie		
auxiliary contact(s), AC15			No auxiliar	y contact	
auxiliary contact ratings			=0-		
weight .			522	g	
accessories:	-				



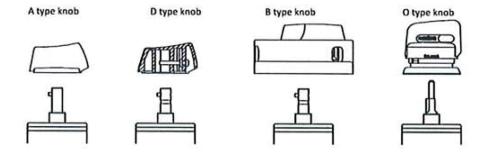
Mounting instructions

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 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). 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.

- $\ \, \text{Check the installation for signs of overload or overheating. The terminals may not exceed the limit of 85 ^{\circ}\text{C} \ \ \text{under full load}.}$
- 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 are be subject to change without notice.