## THE NEW SANTON X-TYPE SWITCH

## TECHNICAL SPECIFICATIONS AND INSTRUCTIONS FOR USE

SANTON X-TYPE SWITCH:

X60.16PL4E-(A)



Switch disconnector for solar application according to IEC 60947-1&3



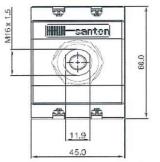
1	Contact scheme			Positions			
10	Marking	Symbol	Marking				4
12		-/-					
11		-/-					
10		-/-					
9		-/-					
8		-/-					
7		-/-					
6		-/-					
5		-/-					
4	+2	-/-	+2	X			
3	-2	-/-	-2	X			
2	-1	-/-	-1	X			
1	+1	-/-	+1	Х			

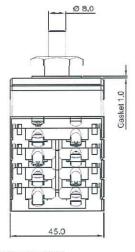
Contacts are made in "X" marked position.

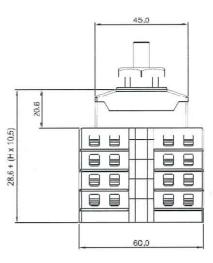
	Symbols for interconnection:[]					
Fechnical data	Symbol	Unit				
nominal voltage (DC poles)	Ue		600	V dc		
nominal current (DC poles)	le		16	A dc		
nominal voltage (second rating DC poles, if requested)	Ue			V dc		
nominal current (second rating DC poles, if requested)	le			A dc		
ethod of mounting single hole mounting IP65 [P]						
number of DC poles			4			
utilization category DC			DC-21B			
actuator	without a kno	without a knob, suitable for standard black knob [A]				
positions	OFF at 12 hr,	OFF at 12 hr, ON at 3 hr [E]				
rated impulse withstand voltage	Uimp		8	kV		
insulation voltage	Ui		600	V		
rated thermal current uninterrupted duty	Iu		16	Α		
rated short-time withstand current (1s)	lcw		480	А		
rated short-circuit making capacity	Icm		1,4	kA		
rated conditional short-circuit current			4	kA		
max. cut-off current				kA		
max power dissipation			1,6	W		
method of operation	independent	manual operatio	anual operation			
minimum required dimensions of enclosures I x w x h*		124 x 47 x 74		mm		
* see the drawing for the height of the switch. The number	of layers H is:		4			
terminal screws M4 need a tightening torque, min max.		1,5	1,7	Nm		
tightening torque screw in the standard black knob, min n	nax.	2,0	2,5	Nm		
minimum required fine wire cross-section: IEC60947-1, tab	le 9		2,5	mm <sup>2</sup>		
ambient temperature allowed between		- 5	and + 40	°C		
storage temperature allowed between		- 40	and + 80	°C		
maximum relative humidity, without condensation at 20°C			90	%		
pollution degree			2			
IP rating terminals			IP20			
IP rating gland of the shaft in case of single hole panel mour	nting		IP65			
nominal voltage (AC poles)	Ue		0	V AC		
nominal current (AC poles)	le		0	A AC		
number of DC poles			0			
auxiliary contact, nominal current 16A at 250 V, AC15	No auxiliary o	ontact				
weight	7		221	g		
accessories:			1070015			

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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. The terminals can take flexible wires up to 6 mm $^2$  and fork shoes for wires up to 10 mm $^2$  (type 3547C from Vogt). 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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Superior Switch Solutions