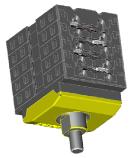
## THE NEW SANTON X-TYPE SWITCH

## TECHNICAL SPECIFICATIONS AND INSTRUCTIONS FOR USE

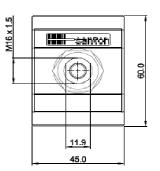
SANTON X-TYPE SWITCH:

X60.25R2E-A

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



19	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	25	A dc				
nominal voltage (second rating DC poles, if requested)	Ue		V dc				
nominal current (second rating DC poles, if requested)	le		A dc				
nethod of mounting reverse single hole mou	nting IP65 [R] terr	ninals access from	bottom s				
number of DC poles		2					
utilization category DC		DC-21B					
actuator	standard black	([A],					
positions	OFF at 12 hr, C	DN at 3 hr [E]					
ated impulse withstand voltage	Uimp	8	kV				
nsulation voltage	Ui	600	V				
ated thermal current uninterrupted duty	lu	25	А				
ated short-time withstand current (1s)	lcw	750	А				
ated short-circuit making capacity	lcm	1,4	kA				
ated conditional short-circuit current		2	kA				
nax. cut-off current			kA				
nax power dissipation		1,8	W				
nethod of operation	independent r	nanual operation					
ninimum required dimensions of enclosures I x w x h*	124 x 47 x 53 mm		mm				
* see the drawing for the height of the switch. The number of layers H is:		2					
ightening torque terminal screws M4, min max.		1,5 1,7	Nm				
ightening torque panel mounting nut, min max.		2,0 2,5	Nm				
ightening torque screw in the standard black knob, min max.		0,5 0,7	Nm				
ninimum required fine wire cross-section: IEC60947-1, table 9		4	mm²				
ambient temperature allowed between		- 5 and + 40	°C				
torage temperature allowed between		- 40 and + 80	°C				
naximum relative humidity, without condensation at 20°C		90	%				
pollution degree		2					
P rating terminals		IP20					
P rating gland of the shaft in case of single hole panel mounting		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 co	ontact					
veight		157	g				



Δ

Positions

Contact scheme

\_/\_

\_/\_

-/-

-/-

\_/\_

-/-

-/--/--/-

-/-

-/-

12

11

10

9

8

3

2 -1

1 +1

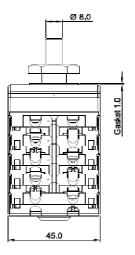
Marking Symbol Marking 1 2 <u>3</u> 4

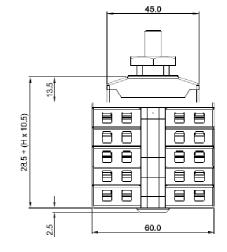
-1 X

+1 X

1

H is the number of layers in the switch





## 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, 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.

Superior Switch Solutions