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



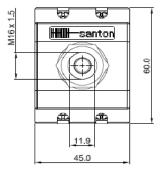
	Contact scheme			Positions			
	Marking	Symbol	Marking	1	2	3	4
12		_/_					
11		-/-					
10		-/-					
9		-/-					
8		-/-					
7		-/-					
6		-/-					
5		-/-					
4	+2	-/-	+2	Х			
3	-2	-/-	-2	Х			
2	-1	-/-	-1	Х			
1	+1	-/-	+1	Х			

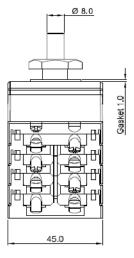
Contacts are made in "X" marked position.

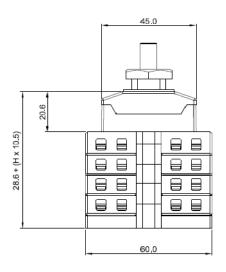
	Symbols for interconnection:[]				
Technical data	Symbol	Unit			
nominal voltage (DC poles)	Ue	600	V dc		
nominal current (DC poles)	le	16	A dc		
nominal voltage (second rating DC poles, if requested)	Ue		V dc		
nominal current (second rating DC poles, if requested)	le		A dc		
nethod of mounting single hole mounting IP65 [P] long					
number of DC poles		4	ļ		
utilization category DC		DC-21	3		
actuator	tuator without a knob, suitable for standar			[A]	
positions	OFF at 12 hr, ON at 3 hr [E]				
rated impulse withstand voltage	Uimp	8	3 kV		
insulation voltage	Ui	600) V		
rated thermal current uninterrupted duty	lu	16	5 A		
rated short-time withstand current (1s)	lcw	480) A		
rated short-circuit making capacity	Icm	1.4	↓ kA		
rated conditional short-circuit current		4	l kA		
max. cut-off current			kA		
max power dissipation		1.6	5 W		
method of operation	hod of operation independent manual operation				
minimum required dimensions of enclosures I x w x h*		124 x 47 x 74	l mm		
* see the drawing for the height of the switch. The number of	layers H is:	4	ļ		
terminal screws M4 need a tightening torque, min max.		1.5 1.7	7 Nm		
tightening torque screw in the standard black knob, min ma	X.	2.0 2.5			
minimum required fine wire cross-section: IEC60947-1, table	9	2.5	mm²		
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	<u>)</u>		
IP rating terminals		IP20)		
IP rating gland of the shaft in case of single hole panel mounti	ing	IP65	5		
nominal voltage (AC poles)	Ue	(V AC		
nominal current (AC poles)	le	(A AC		
number of DC poles		()		
auxiliary contact, nominal current 16A at 250 V, AC15 No auxiliary contact					
weight		221	L 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. The terminals can take flexible wires up to 6 mm² and fork shoes for wires up to 10 mm² (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.

Superior Switch Solutions