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TECHNICAL SPECIFICATIONS AND INSTRUCTIONS FOR USE

SANTON X-TYPE SWITCH: X60.16R4E-A-25.20.2



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

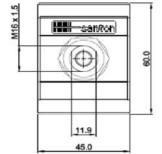


	Contact scheme		Positions				
	Marking	Symbol	Marking				
12		-/-					
11		-/-					
10		-/-					
9		-/-					
8		-/-					
7	D	-/-	С	Х			
6	В	-/-	Α	Х			
5		Empty					
4	+2	-/-	+2	X			
3	-2	-/-	-2	Х			
2	-1	-/-	-1	X			
1	+1	-/-	+1	Х			

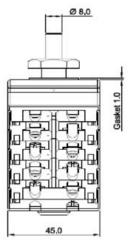
Contacts are made in "X" marked position.

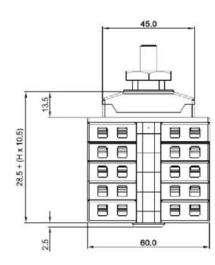
	Symbols for interc		
Technical data	Symbol	Unit	
nominal voltage (DC poles)	Ue	600	V dc
nominal current (DC poles)	le	16	A dc
nominal voltage (second rating DC poles, if requested)	Ue		V dc
nominal current (second rating DC poles, if requested)	le		A dc

nominal current (DC poles)	ie	10	A dc	
nominal voltage (second rating DC poles, if requested)	Ue		V dc	
nominal current (second rating DC poles, if requested)	le		A dc	
method of mounting reverse single hole	mounting IP65 [R] term	inals access from	bottom sid	
number of DC poles		4		
utilization category DC		DC-21B		
actuator standard black [A],				
positions	OFF at 12 hr, O	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	lu	16	Α	
rated short-time withstand current (1s)	lcw	480	Α	
rated short-circuit making capacity	Icm	1.4	kA	
rated conditional short-circuit current		7	kA	
max. cut-off current			kA	
max power dissipation		2.2	W	
method of operation	independent manual operation			
minimum required dimensions of enclosures I x w x h*		124 x 47 x 105.5	mm	
* see the drawing for the height of the switch. The number of layers H is:		7		
tightening torque terminal screws M4, min max.		1.5 1.7	Nm	
tightening torque panel mounting nut, min max.		2.0 2.5	Nm	
tightening torque screw in the standard black knob, min max.		0.5 0.7	Nm	
minimum required fine wire cross-section: IEC60947-1, table 9		2.5	mm ²	
mbient temperature allowed between - 5 and + 4		- 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 mounting		IP65		
nominal voltage (AC poles)	Ue	250	V AC	
nominal current (AC poles)	le	20	A AC	
number of DC poles		2		
auxiliary contact, nominal current 16A at 250 V, AC15	No auxiliary cor	ntact		
weight		315	g	
accessories:				



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 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: £13288 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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