TECHNICAL SPECIFICATIONS AND INSTRUCTIONS FOR USE

SANTON X-TYPE SWITCH:

X85.16P4E-A



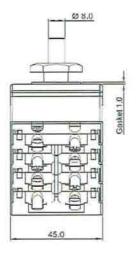
Switch disconnector for solar application according to IEC 60947-1&3

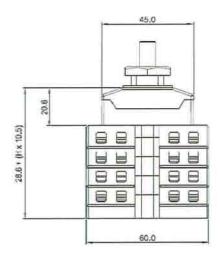
11	Contact scheme			Positions		
- 11	Marking	Symbol	Warking		7. 3	-6
12		-/-				
11		-/-				
10		-/-				
9		-/-				
8		-/-				
7		-/-				
6		-/-				
5		-/-				
4	+2	-/-	62	X		
3	-2	-/-	-2	×		
2	-10	-/-	1	х		
1	+1	-/-	+1	Х		

Symbols for interconnection 1

	Symbols for interconnection:[]					
Technical data	symbol	Unit	Unit			
nominal voltage (DC poles)	Ue		850	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		
method of mounting		single	hole moun	ting IP65		
number of DC poles			4			
utilization category DC			DC-21B			
actuator	standard black	[A].				
positions	OFF at 12 hr, C	OFF at 12 hr, ON at 3 hr [E]				
rated impulse withstand voltage	Ulmp		8	kV		
insulation voltage	Ul		850	V		
rated thermal current uninterrupted duty	lu		16	A		
rated short-time withstand current (1s)	lcw		480	A		
rated short-circuit making capacity	lcm		1,4	kA		
rated conditional short-circuit current			4	kA		
max, cut-off current				kA		
max power dissipation			1,4	W		
nethod of operation Independent manual operation						
minimum required dimensions of enclosures I x w x h*	10	124	x 47 x 74	mm		
* see the drawing for the height of the switch. The number	of layers H is:		4			
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 n	nax.	0,5	0,7	Nm		
minimum required fine wire cross-section: IEC60947-1, tab	le 9		2,5	mm ²		
ambient temperature allowed between		145	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		1P65			
nominal voltage (AC poles)	Ue		0	VAC		
nominal current (AC poles)	le		0	AAC		
number of DC poles			0			
auxiliary contact, nominal current 16A at 250 V, AC15	No auxiliary co	ntact				
weight			221	g		
accessories:						

-santon 11.9 45.0





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: 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
- 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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