THE NEW SANTON X-TYPE SWITCH

TECHNICAL SPECIFICATIONS AND INSTRUCTIONS FOR USE

SANTON X-TYPE SWITCH: X85.16DL6E-A Switch disconnector for solar application according to IEC 60947-1&3





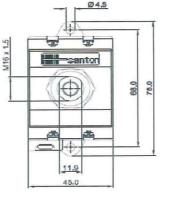
Contacts are made in "X" marked position. Symbols for interconnection: []

1	Co	ntact schen	ne	Positions			\$
	Marking	Symbol	Marking			3	4
13		-/-					
12		-/-					
11		-/-					
10		-/-					
9		-/-					
8		-/-					
7	-3	-/-	-3	X			
6	+3	-/-	+3	X			
5	+2	-/-	+2	X			
4	-2	-/-	-2	Х			
3	-1	-/-	-1	X			
2	+1	-/-	+1	Х			
1		Empty					

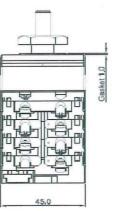
Technical data	Symbol	Unit					
nominal voltage (DC poles)	Ue		850	V dc			
nominal current (DC poles)	le		16	A dc			
nominal voltage (second rating DC poles, if requested)	Ue			V dc			
nominal current (second rating DC poles, if requested)	le			A dc			
method of mounting	both bottom a	both bottom and single hole mounting [D] long glar					
number of DC poles			6				
utilization category DC			DC-21B				
actuator	standard blac	standard black [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		850	٧			
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			5	kA			
max. cut-off current				kA			
max power dissipation			2,2	W			
method of operation	independent	manual operat	ion				
minimum required dimensions of enclosures I x w x h*		124 x 4	7 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, tab	ole 9		2,5	mm ²			
ambient temperature allowed between		- 5 and + 40		*C			
storage temperature allowed between		- 40 and + 80					
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 mou	nting						
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			315	g			
accessories:	-						

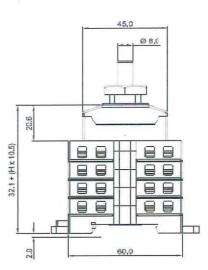
switch Solutions. Santon





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: E13288 and CSA: LR7189 (for instance type 165015 from Tyco). After mounting, the wiring must be checked and the switch must operate smoothly.

Maintenan

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.

JD Auspice Co.,Ltd. TEL: 886-2-2595-9780 FAX: 886-2-2595-9412 service@jdauspice.com www.jdauspice.com

Superior Switch Solutions