THE NEW SANTON X-TYPE SWITCH

TECHNICAL SPECIFICATIONS AND INSTRUCTIONS FOR USE

SANTON X-TYPE SWITCH:

X60.16R2E-A



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



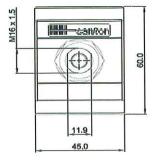
- 1	Contact scheme				Positions			
П	Marking	Symbol	Marking				4	
12		-/-						
11		-/-						
10		-/-						
9		-/-						
8		-/-						
7		-/-						
6		-/-						
5		-/-						
4		-/-						
3		-/-						
2	-1	-/-	-1	X				
1	+1	-/-	+1	X				

Contacts are made in X mark	ea positio
Symbols for interconnection: [1

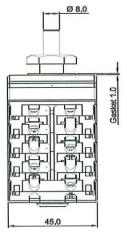
	Symbols for interconnection: []			
Technical data	Symbol	Un	it	
nominal voltage (DC poles)	Ue		600	V dc
nominal current (DC poles)	le		16	A dc
nominal voltage (second rating DC poles, if requested)	Ue			V dc
nominal current (second rating DC poles, if requested)	le			A dc
method of mounting reverse single hole mou	unting IP65 [R] te	rminals ac	cess from	bottom si
number of DC poles			2	
utilization category DC			DC-218	
actuator	standard blad	ck [A],		
positions	Total Control of the		(E)	
rated impulse withstand voltage	Uimp		8	kV
insulation voltage	Ui		600	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			2	kA
max, cut-off current				kA
max power dissipation			0,7	W
method of operation	independent	manual or	peration	
minimum required dimensions of enclosures I x w x h*		124 x 47 x 53		mm
* see the drawing for the height of the switch. The number of layers H is:			2	
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
ambient temperature allowed between		- 5 a	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		0	VAC
nominal current (AC poles)	le		0	A AC
number of DC poles			0	
auxiliary contact, nominal current 16A at 250 V, AC15	No auxiliary contact			
weight			157	g
accessories:				

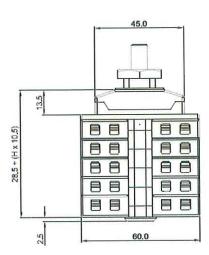
- santon





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.

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 Suite's Solutions