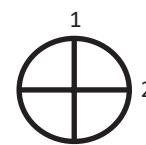




# Data Sheet Santon X-Type switch X85.40B2E-A

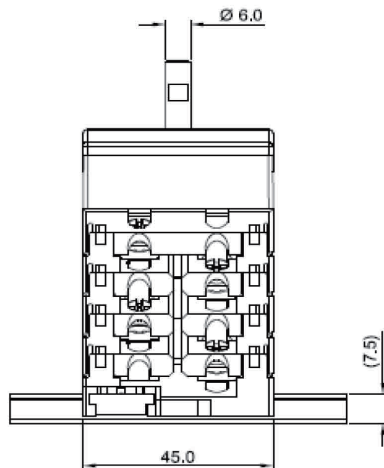
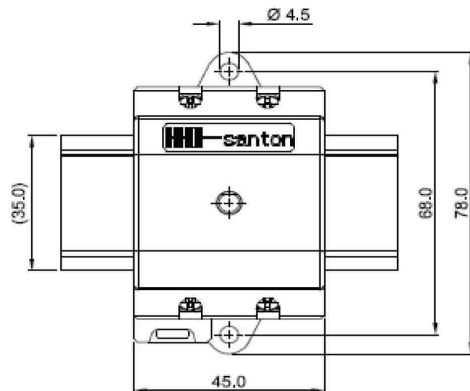
Switch disconnecter for solar application according to IEC 60947-1&3



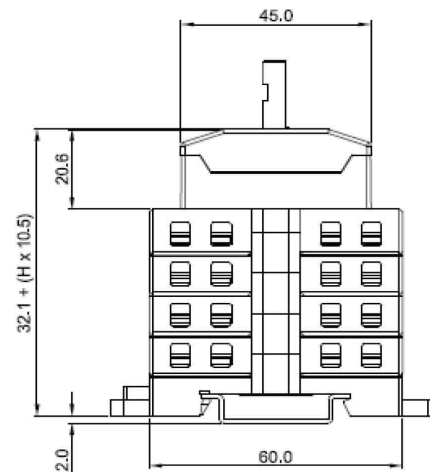
Layer No.	Marking	Symbol	Marking	On Positions			
				1	2	3	4
11		—/—					
10		—/—					
9		—/—					
8		—/—					
7		—/—					
6		—/—					
5		—/—					
4	+1	—/—	+1			X	
3		—/—				X	
2	-1	—/—				X	
1		—/—	-1			X	

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

Technical data	Symbol	Merit	Unit
rated operational voltage (DC poles)	Ue		840 V dc
rated operational current (DC poles)	Ie		40 A dc
rated operational voltage (second rating DC poles, if requested)	Ue		V dc
rated operational current (second rating DC poles, if requested)	Ie		A dc
method of mounting	DIN rail and or Base mounting [B]		
number of DC poles			2
utilization category DC			21
actuator	standard black [A]		
positions	OFF at 12 hr, ON at 3 hr [E]		
rated impulse withstand voltage	Uimp		8 kV
rated insulation voltage	Ui		1000 V
rated thermal current uninterrupted duty	Iu		40 A
rated short-time withstand current (1s)	Icw		1200 A
rated short-circuit making capacity	Icm		1,4 kA
rated conditional short-circuit current			5 kA
max. cut-off current			kA
max power dissipation			15,4 W
method of operation	independent manual operation		
minimum required dimensions of enclosures L x W x H*			124 x 47 x 77 mm
* see the drawing for the height of the switch. The number of layers H is:			4
terminal screws M4 need a tightening torque, min. - max.	1,5	1,7	Nm
tightening torque screw in the standard black knob, min. - max.	2,0	2,5	Nm
minimum required fine wire cross-section: IEC60947-1, table 9			10 mm <sup>2</sup>
ambient temperature allowed between			- 5 to + 40 °C
storage temperature allowed between			- 20 to + 70 °C
maximum relative humidity, without condensation			90 %
pollution degree			2
IP rating terminals			IP20
IP rating gland of the shaft in case of single hole panel mounting			
nominal voltage (AC poles)	Ue		V ac
nominal current (AC poles)	Ie		A ac
number of DC poles			
auxiliary contact, nominal current 16A at 250 V, AC15	No auxiliary contact		
weight			284 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 can take flexible wires up to 6 mm<sup>2</sup> and fork shoes for wires up to 10 mm<sup>2</sup> (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 are be subject to change without notice.