## HIIII santon

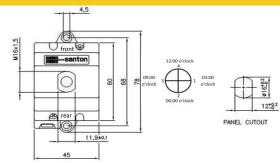
Switch disconnector for solar application according to IEC 60947-1&3 by Dekra (KEMA) and CCC (CQC), fourth rating only according to IEC

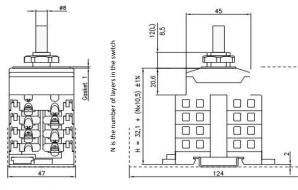


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			Terminals	s Sche	me				
Layer	Front Side		Symbol [	Rear Side		On Posit		sit	io
No.	Left	Right	Symbol	Left	Right	1	2	3	4
7			-/-	+2			Х		X
6			-/-		+2		Х		X
5	-2		_/_	-2			Х		X
4		-1	-/-		-1		Х		X
3		(	-/-	+1			Х		X
2			-/-		+1		Х		X
1			omntv						

Contacts are made in "X" marked position.

	Contacts ar	Contacts are made in "X" marked position.					
	Symbols fo	Symbols for interconnection: [					
Technical data	Symbol Meri	t		Unit			
rated operational voltage (DC poles)	Ue		1000	V dc			
rated operational current (DC poles)	le		40	A dc			
rated operational voltage (second rating DC poles, if requested)	Ue			V dc			
rated operational current (second rating DC poles, if requested)	le			A dc			
rated operational voltage (third rating DC poles, if requested)	Ue			V dc			
rated operational current (third rating DC poles, if requested)	le			A dc			
rated operational voltage (fourth rating DC poles, if requested)	Ue			V dc			
rated operational current (fourth rating DC poles, if requested)	le			A dc			
method of mounting	both bottom and si	both bottom and single hole mounting [D]					
number of DC poles			4				
utilization category DC	DC-21B						
actuator	knob with padlock	and top screw, rec	i/grey [H]				
positions	OFF at 3 hr, ON at 6	5 hr, OFF at 9 hr, C	N at 12 hr				
rated impulse withstand voltage	Uimp		8	kV			
insulation voltage	Ui		1000	V			
rated thermal current uninterrupted duty	lu		40	A			
rated short-time withstand current (1s)	lcw		750	A			
rated short-circuit making capacity	Icm		1,4	kA			
rated conditional short-circuit current			5	kA			
method of operation	independent manu	al operation					
minimum required dimensions of enclosures L x W x H* (on DIN-rail H = +2n	nm) {space envelope}	124 x	47 x 105,6	mm			
* see the drawing for the height of the switch. The number of layers N is:			7				
knob operation force		max.	1,4	Nm			
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 M3 screw in the standard black knob, min max.		0,5	0,7	Nm			
ambient temperature allowed between			25 to + 70	*C			
storage temperature allowed between		-	40 to + 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				
rated operational voltage (AC poles)	Ue			V ac			
rated operational current (AC poles)	le			A ac			
number of AC poles (for general use)							
minimum required fine wire cross-section: IEC60947-1, table 9				mm2			
auxiliary contact(s), AC15			No auxiliar	ry contact			
auxiliary contact ratings							
weight			315	g			
accessories:	-						





Mounting instructions

In the application all ratings according to the datasheet have to be respected. After mounting, the wiring must be checked and the switch must operate smoothly. When building the switch in an enclosure, the space envelope must be respected according to the applicable standards.

## 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.

## Connection details

Description	Symbol 1	Values				Unit
Rated operational current (DC poles)	le	40				A dc
Required fine wire cross-section (minimal): IEC60947-1, table 9	А	2x6	-	-	-	mm²
max power dissipation	Р	6,4				W

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).

## Registerd Spade Tongue Terminals

Superior Switch Solutions

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	Color
JST	FVD2-YS4A	AWG 16 – AWG 14	1,0 – 2,5 mm²	Blue
TE connectivity	C-165012	AWG 16 – AWG 14	1,0 – 2,5 mm²	Blue
Vogt	3635c	AWG 16 – AWG 14	1,5 – 2,5 mm²	Blue
TE connectivity	C-165015	AWG 12 - AWG 10	3,0 - 6,0 mm²	Yellow
Vogt	3652c/3653c	AWG 12 - AWG 10	3,0 - 6,0 mm²	Yellow
Santon (JST)	52A1256.35	AWG 8 - AWG 10	10,5mm <sup>2</sup> -16mm <sup>2</sup> * <sup>1</sup>	*2

\*1 16mm<sup>2</sup> only with fine stranded wire or two 6mm<sup>2</sup> is also possible

\*2 Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00

Dimensions, specifications and data shown are be subject to change without notice.

Superior Switch Solutions