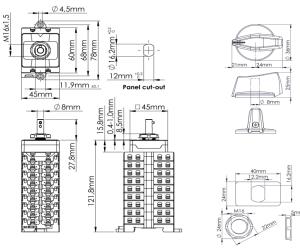
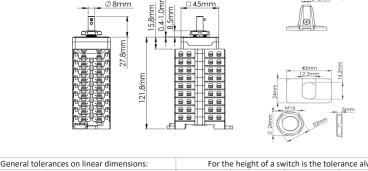


Data Sheet XBHP+0810/2



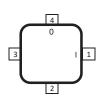


General tolerances on linear dimensions:	For the height of a switch is the tolerance always ± 1%						
Dimensions (mm)	0,5 - 3	> 3 - 6	> 6 - 30	> 30 - 120	> 120 - 400		
Tolerances unless Otherwise mentioned (mm)	± 0,1	± 0,1	± 0,2	± 0,3	± 0,5		
The tolerances for the Santon datasheet are according to ISO 1101, ISO 8015, ISO 2768 1 class m, unless stated otherwise.							

rechnical data	Symbol	κaπngs:			1	- 11	III	Unit
Rated operational voltage	Ue	DC-PV1		10	00	800	600	V dc
Rated operational current	le	DC-PV1			30	40	50	A dc
Required fine wire cross-section (minimal				6	10	10	mm²	
Rated operational voltage based of	on Ue	DC-PV2		10	00 ≦	800	≦600	V dc
Rated operational current 2 poles	le	DC-PV2		12	2,5	20	30	V dc
Ie(make) and Ie(break)	4 x le	DC-PV2			50	80	120	A dc
Rated operational current 1 poles	le	DC-PV2			3,1	5	7,5	A dc
Ie(make) and Ie(break)	4 x le	DC-PV2		12	2,5	20	30	A dc
Required fine wire cross-section (minimal)*:				2,5	4	6	mm²
*IEC60947-1, table 9					,-			
Number of DC poles							8	
Pollution degree							2	
Utilization category DC					DC-P\	V1 and D	C-PV2	
Polarity		No Polar	ity, "+" and "	-" polarit	ties could	be inter	changed	
Indoor or outdoor Use		Suitable	for both indo	or and o	utdoor u	se		
for enclosed indoor use IP Co	ode			IP20				
for enclosed outdoor use IP Co				IP66NW	, after in:	stallation		
for enclosed outdoor use Spec	cific dedicate	d individua	l enclosure	min. size	e 340mm	x 240mr	n x100mm	
for enclosed outdoor use Ithe	at 40°C			50A				
for enclosed outdoor use Ithe	solar at 40°C	:		50A				
for enclosed outdoor use Ithe	solar at 60°C	;		50A				
	esistance			Yes				
IP rating terminals							IP20	
Tightening torque terminal screws M4 (m	in max.)					0,50 -	- 0,70	Nm
Method of mounting								
IP rating of the shaft in case of single hole							IP65	
Tightening torque panel mounting nut (m	in max.)					2,0) – 2,5	Nm
Panel thickness between				1 (
Positions			F) and 3 o'clo					
	Actuator Standard A knob with long screw to fix in shaft							
Method of operation		Indepe	ndent manua	I operati	ion			
Actuator operation force (max.)							1,4	Nm
Tightening torque M3 screw in the actuat	or (min ma	x.)				0,50	- 0,70	Nm
Rated impulse withstand voltage		Uimp					8	kV
Insulation voltage		Ui					1000	V
Rated thermal current uninterrupted duty	/	lu	DC-PV1 = 50) A	DC-PV2 =		50	Α
Rated short-time withstand current (1s)		Icw					700	Α
Rated short-circuit making capacity by IEC	60947 1&3	Icm					1,4	kA
Rated conditional short-circuit current		Isc					5	kA
Rated short-circuit making capacity by AS	60947: 2018	Icm					200	Α
Minimum required dimensions of enclosu	res L x W x D	* {space er	rvelope}			124 x 47	x 123	mm
	itch. The nur	nber of lay	ers N is:				8	
* see the drawing for the height of the sw		- /				C	a. 308	g
Weight	()	Tambie	ent					
		Tambie Tstorag				-4	0 – 70 0 – 85	°C

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





Terminals Scheme									
Layer	Fron	t Side	Symbol	Rear Side		Positions			
No.	Left	Right	Зуппоот	Left	Right	1	2	3	4
9	+4			+4		1			0
8		-4			-4	1			0
7	-3			3		1			0
6		+3			+3	1			0
5	+2			+2		1			0
4		-2			-2	1			0
3	-1			-1		1			0
2		+1			+1	1			0
1			Empty						

(I = Contact is closed, O = Contact is open)

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. In case mounting the switch with a rear bracket using the optional four screw holes in the bottom plate, please take into account the required air&creeping distances with respect to the live parts according to the applicable standard (IEC/UL).

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.

The terminals, can take copper wires up to 6 mm2. The recommended Spade Tongue Terminals may have a maximum width of 9 mm (see table for recommendations)

Verify that all connections (including bridging link connections) are suitable for the rated current, prepared to ensure only conductive parts are clamped and tightend to the manufacturer's required torque before energization.

note: subject to change without any notice, JDA pay no responsibility

^{*1 16}mm² only with fine stranded wire (or two times 6mm²)

^{*2} To insulate the cable lugs, you can use the insulating spouts of the ES series from CEMBRE with the type designation ES3....