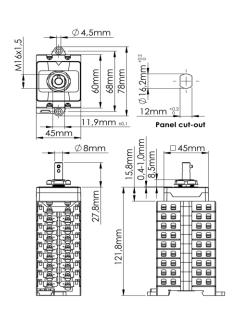


IIIIIIII santon

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	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		

|--|

Technical data	Sym	lodr	Ratings:	1		- II		III	Unit
Rated operational voltage		Ue	DC-PV1	1000)	800		600	V dc
Rated operational current		le	DC-PV1	30)	40		50	A dc
Required fine wire cross-section	n (minimal)*:			6	,	10		10	mm²
Rated operational voltage	based on	Ue	DC-PV2	1000)	≦800		≦600	V dc
Rated operational current	2 poles	le	DC-PV2	12,5		20		30	V dc
le(make) and le(break)	1/2/-	4 x le		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)	1/←	4 x le	DC-PV2	12,5		20		30	A dc
Required fine wire cross-section	n (minimal)*:			2,5		4		6	mm²
*IEC60947-1, table 9									
Number of DC poles								8	
Pollution degree						_		2	
Utilization category DC						C-PV1		OC-PV2	
Polarity				d "-" polarities could l		erchan	ged		
Indoor or outdoor Use			Suitable for both in	door and outdoor us	e				
for enclosed indoor use		ode		IP20					
for enclosed outdoor use		ode	adianta din distributation de la co	IP66NW, at	ter in	stallati	on	100	
for enclosed outdoor use			edicated individual enclosu		4Umn	1 X 240r	mm x	TOOMM	
for enclosed outdoor use		at 40		50A					
for enclosed outdoor use			at 40°C	50A					
for enclosed outdoor use			at 60°C	50A					
for enclosed outdoor use	UV	resista	ance	Yes				1000	
IP rating terminals	844 /!					1,5		IP20 1,7	NI
Tightening torque terminal scre Method of mounting	ews ivi4 (min	max.				1,5		1,/	Nm
IP rating of the shaft in case of	single hele me	atin.						IP65	
Tightening torque panel mount						2,0		2.5	Nm
Panel thickness between	ting nut (min	IIIdX.				2,0		4	mm
Positions			12 (055)	and 3 o'clock (ON)				- 4	mm
Actuator				d A knob with long sc	row to	n fiv in	chaft		
Method of operation				dent manual operation		J IIX III .	onant		
Actuator operation force (max.	1		шаерен	dent mandar operatio	JII			1.4	Nm
Tightening torque M3 screw in		nin -	may)			0.50		0,70	Nm
Rated impulse withstand voltage			Uimp			0,50		8	kV
Insulation voltage	50		Ui					1000	V
Rated thermal current unintern	unted duty		lu	DC-PV1 = 50 A	DC-	PV2 =		50	Ä
Rated short-time withstand cur			Icw					700	A
Rated short-circuit making capa		947 18						1,4	kA
Rated conditional short-circuit			Isc					5	kA
Rated short-circuit making capa		47: 20						200	A
Minimum required dimensions				124	Х	47	х	123	mm
* see the drawing for the heigh								8	
Weight			,				C	a. 308	g
Allowed ambient temperature	(min max.)		Tambier	nt		-40	-	70	°C
Allowed storage temperature (Tstorage	2		-40	-	85	°C
Relative humidity (max.), without		n at 3						90	%

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	Color
JST		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 mm²	Blue
TE connectivity	C-165015	AWG 12 - AWG 10	3,0 - 6,0 mm ²	Yellow
Vogt	3654c / 3655c	AWG 12 - AWG 10	3,0 - 6,0 mm ²	Yellow
Santon (JST)	52A1256.35	AWG 8 - AWG 10	10,5mm²-16mm² *1	*2

Terminals Scheme									
Layer	Fron	t Side	Symbol	Rear Side		Positions			
No.	Left	Right	Зуппрог	Left	Right	1	2	3	4
9	+4		<u></u> ~	+4		Ι			0
8		-4			-4	Ι			0
7	-3			-3		Ι			0
6		+3	<u> </u>		+3	Ι			0
5	+2		<u> </u>	+2		Ι			0
4		-2			-2	Ι			0
3	-1			-1		Ι			0
2		+1	- ∕o-		+1	Ι			0
1			Empty						
(I = Contact is closed () = 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).

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

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)

Warning

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.

^{*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 $\ensuremath{\mathsf{ES3}}$